

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\
 Data File : VN054121.D
 Acq On : 6 Mar 2019 17:20
 Operator : JC/SP
 Sample : VN0306WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/7/2019 11:39:27 AM

Quant Time: Mar 07 06:59:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 06:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	646084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1012437	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	864429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	381165	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	379783	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
35) Dibromofluoromethane	7.59	113	332763	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
50) Toluene-d8	10.09	98	1260170	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
62) 4-Bromofluorobenzene	12.40	95	409977	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	118093	19.018	ug/l	98
3) Chloromethane	2.05	50	161966	19.940	ug/l	98
4) Vinyl Chloride	2.18	62	159697	18.983	ug/l	100
5) Bromomethane	2.57	94	96866	21.132	ug/l	99
6) Chloroethane	2.71	64	92022	18.046	ug/l	99
7) Trichlorofluoromethane	3.02	101	201034	19.559	ug/l	100
8) Diethyl Ether	3.41	74	75217	18.366	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127641	19.089	ug/l	97
10) Methyl Iodide	3.95	142	138170	19.820	ug/l	100
11) Tert butyl alcohol	4.79	59	46730	98.993	ug/l #	87
12) 1,1-Dichloroethene	3.74	96	120409	19.303	ug/l	95
13) Acrolein	3.60	56	21796	69.402	ug/l	97
14) Allyl chloride	4.32	41	213613	19.005	ug/l	97
15) Acrylonitrile	4.99	53	247927	93.049	ug/l	98
16) Acetone	3.82	43	231681	96.946	ug/l	100
17) Carbon Disulfide	4.05	76	357659	19.232	ug/l	100
18) Methyl Acetate	4.32	43	109101	19.587	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	338985	19.364	ug/l	100
20) Methylene Chloride	4.55	84	140055	19.633	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	129744	18.946	ug/l	98
22) Diisopropyl ether	5.95	45	432796	19.763	ug/l	96
23) Vinyl Acetate	5.90	43	1499058	96.366	ug/l	99
24) 1,1-Dichloroethane	5.85	63	252040	19.236	ug/l	99
25) 2-Butanone	6.84	43	300408	94.479	ug/l	100
26) 2,2-Dichloropropane	6.82	77	185912	19.686	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	147573	19.326	ug/l	99
28) Bromochloromethane	7.19	49	130805	20.002	ug/l	99
29) Tetrahydrofuran	7.21	42	190692	91.499	ug/l	99
30) Chloroform	7.37	83	244427	19.470	ug/l	97
31) Cyclohexane	7.65	56	241938	20.084	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	200028	19.217	ug/l	99
36) 1,1-Dichloropropene	7.79	75	182463	19.201	ug/l	100
37) Ethyl Acetate	6.93	43	130025	19.015	ug/l	100
38) Carbon Tetrachloride	7.77	117	177721	19.590	ug/l	98

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MMDadoda
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	216222	19.715	ug/l	97
40) Benzene	8.04	78	566164	20.138	ug/l	100
41) Methacrylonitrile	7.17	41	53482	15.007	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	177375	19.917	ug/l	100
43) Isopropyl Acetate	8.16	43	211916	19.656	ug/l #	89
44) Trichloroethene	8.83	130	149978	19.894	ug/l	94
45) 1,2-Dichloropropane	9.12	63	157177	20.268	ug/l	100
46) Dibromomethane	9.21	93	87054	19.665	ug/l	98
47) Bromodichloromethane	9.40	83	183536	19.806	ug/l	100
48) Methyl methacrylate	9.20	41	100665	19.251	ug/l	99
49) 1,4-Dioxane	9.20	88	28918	384.700	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	590262	97.294	ug/l	99
52) Toluene	10.16	92	336099	20.178	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	176045	19.261	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	215140	19.916	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	125731	20.045	ug/l	99
56) Ethyl methacrylate	10.43	69	146758	19.931	ug/l	98
57) 1,3-Dichloropropane	10.71	76	214627	20.055	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	317727	94.275	ug/l	99
59) 2-Hexanone	10.75	43	384920	96.175	ug/l	99
60) Dibromochloromethane	10.90	129	131840	19.658	ug/l	99
61) 1,2-Dibromoethane	11.00	107	115349	19.327	ug/l	98
64) Tetrachloroethene	10.63	164	144342	20.347	ug/l	99
65) Chlorobenzene	11.43	112	357275	19.861	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	127204	19.754	ug/l	99
67) Ethyl Benzene	11.51	91	608513	20.215	ug/l	100
68) m/p-Xylenes	11.62	106	469547	41.334	ug/l	100
69) o-Xylene	11.95	106	225492	20.628	ug/l	99
70) Styrene	11.96	104	355561	20.491	ug/l	100
71) Bromoform	12.13	173	86464	19.509	ug/l #	98
73) Isopropylbenzene	12.25	105	600616	19.804	ug/l	100
74) N-amyl acetate	12.07	43	156088	19.432	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	144545	20.267	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	120352m	18.528	ug/l	
77) Bromobenzene	12.53	156	144092	20.077	ug/l	98
78) n-propylbenzene	12.59	91	703842	20.624	ug/l	100
79) 2-Chlorotoluene	12.67	91	411475	19.852	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	507059	20.567	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	35905	18.982	ug/l	97
82) 4-Chlorotoluene	12.77	91	407371	19.715	ug/l	100
83) tert-Butylbenzene	12.99	119	444498	20.358	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	502760	20.546	ug/l	99
85) sec-Butylbenzene	13.17	105	611308	20.632	ug/l	100
86) p-Isopropyltoluene	13.29	119	516590	20.739	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	257251	19.382	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	251383	19.084	ug/l	99
89) n-Butylbenzene	13.61	91	423591	20.141	ug/l	99
90) Hexachloroethane	13.87	117	90526	18.948	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	250207	20.276	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20405	18.439	ug/l	95

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ClientSampleId :
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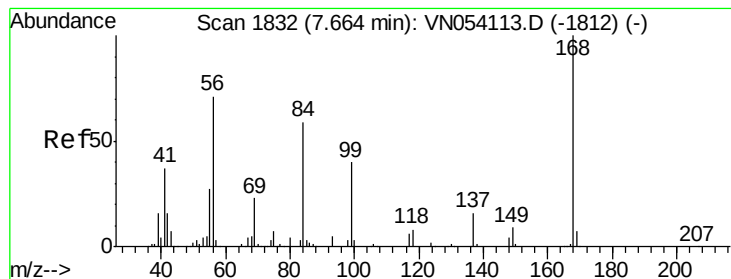
Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:27 AM

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	117940	18.699	ug/l	98
94) Hexachlorobutadiene	15.01	225	93972	22.464	ug/l	98
95) Naphthalene	15.13	128	221866	18.661	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	119180	20.337	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

VN0306WBS01

Tot Ion:168 Resp: 646084

Ion Ratio Lower Upper

168 100

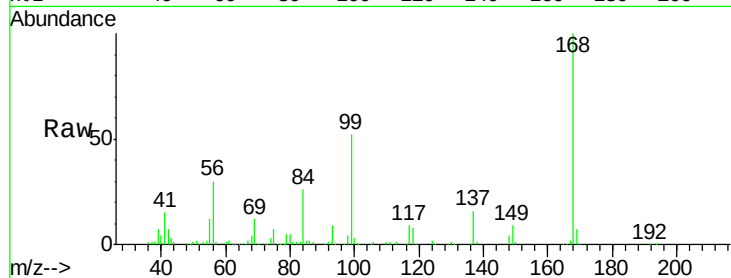
99 51.7 41.1 61.7

Manual Integrations

APPROVED

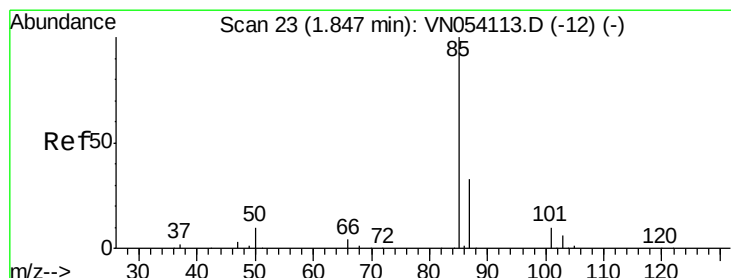
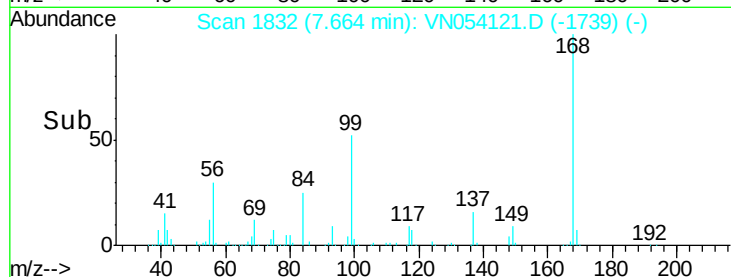
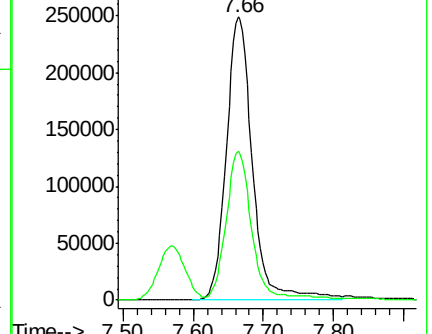
MMDadoda

3/7/2019 11:39:27 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.018 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN054121.D

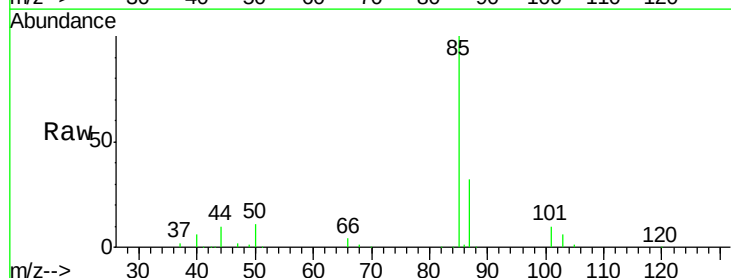
Acq: 6 Mar 2019 17:20

Tgt Ion: 85 Resp: 118093

Ion Ratio Lower Upper

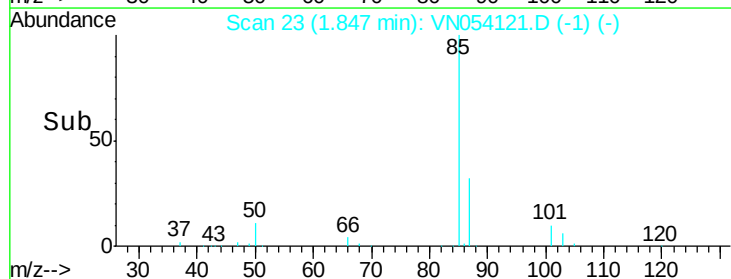
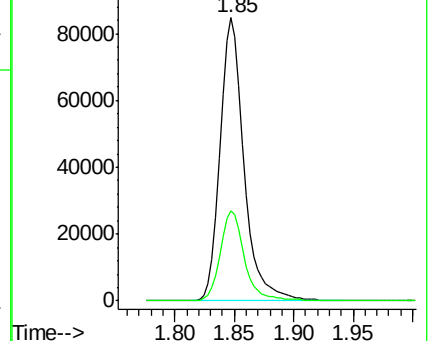
85 100

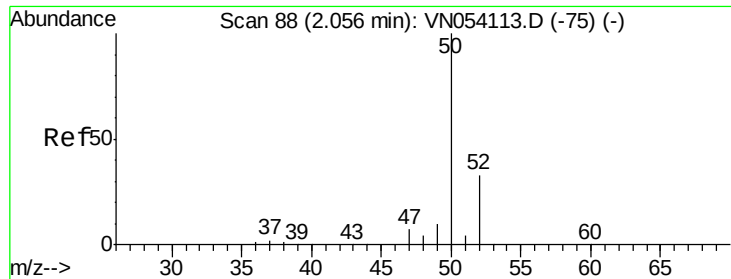
87 31.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.940 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

VN0306WBS01

Tot Ion: 50 Resp: 161966

Ion Ratio Lower Upper

50 100

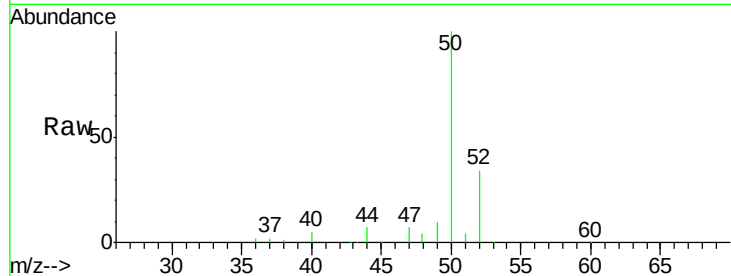
52 33.6 26.0 39.0

Manual Integrations

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3/7/2019 11:39:27 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

120000

100000

80000

60000

40000

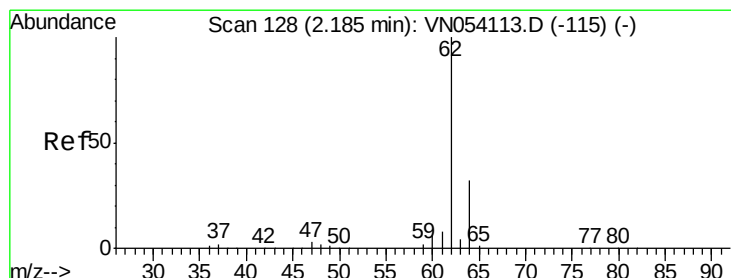
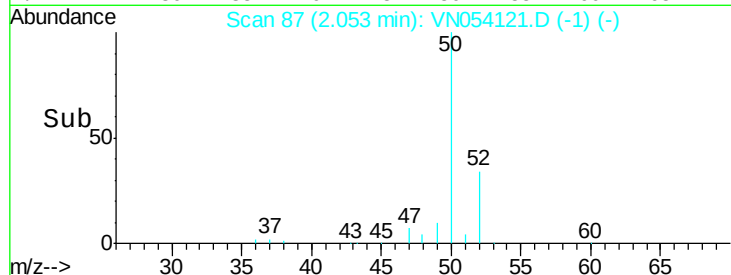
20000

0

2.05

2.10

Time-->



#4

Vinyl Chloride

Concen: 18.983 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN054121.D

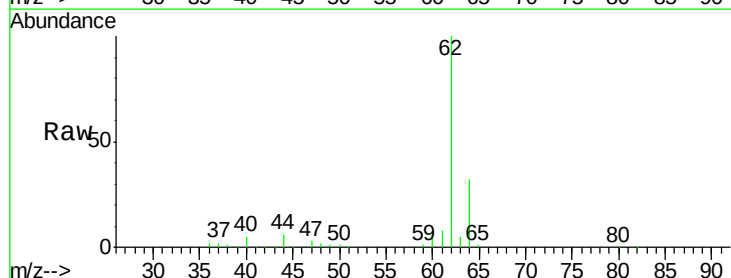
Acq: 6 Mar 2019 17:20

Tgt Ion: 62 Resp: 159697

Ion Ratio Lower Upper

62 100

64 31.9 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

120000

100000

80000

60000

40000

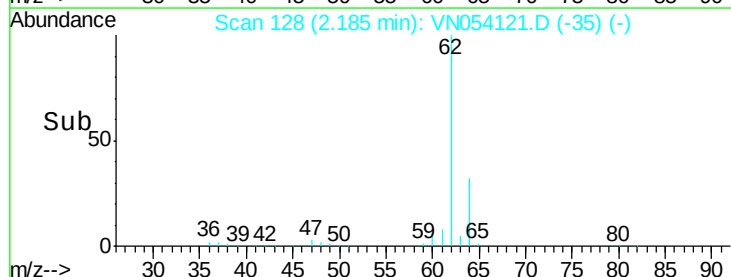
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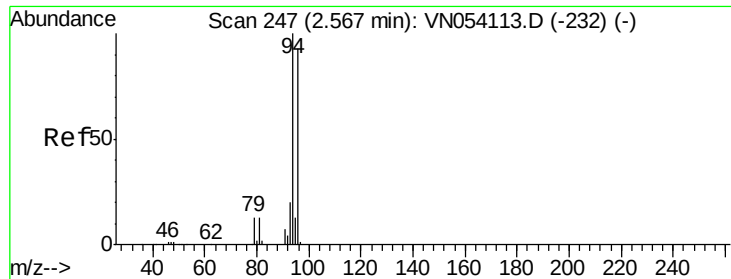
0

2.18

2.30

Time-->





#5

Bromomethane

Concen: 21.132 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

VN0306WBS01

Tot Ion: 94 Resp: 96866

Ion Ratio Lower Upper

94 100

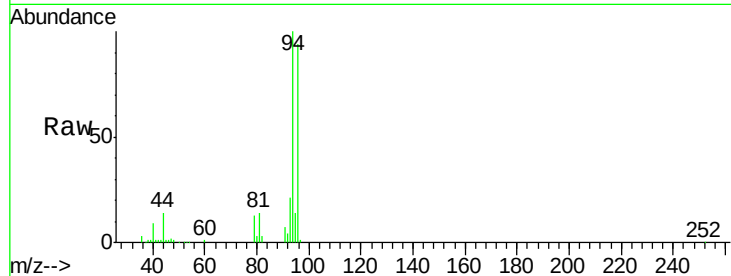
96 93.9 74.2 111.4

Manual Integrations

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3/7/2019 11:39:27 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

50000

40000

30000

20000

10000

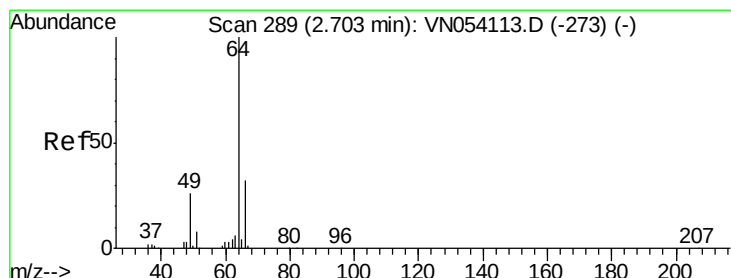
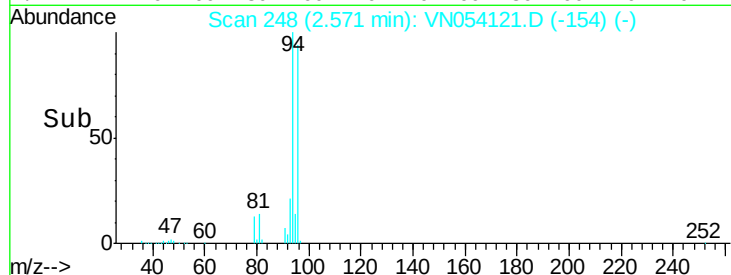
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Time-->

2.50

2.60

2.70



#6

Chloroethane

Concen: 18.046 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054121.D

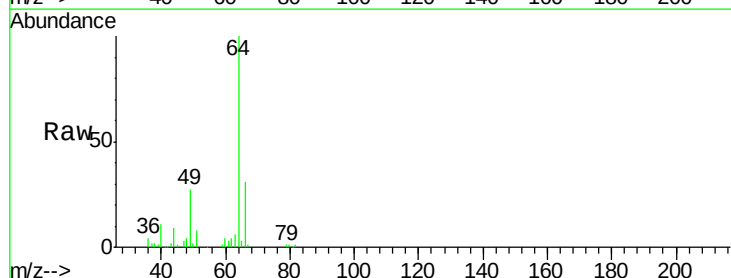
Acq: 6 Mar 2019 17:20

Tgt Ion: 64 Resp: 92022

Ion Ratio Lower Upper

64 100

66 31.4 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

50000

40000

30000

20000

10000

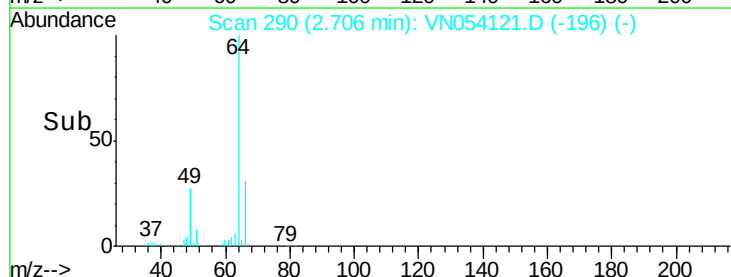
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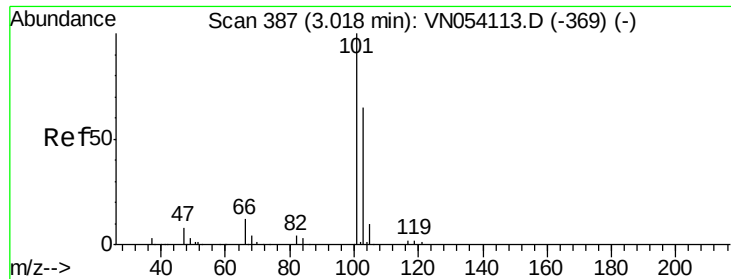
Time-->

2.60

2.70

2.80





#7

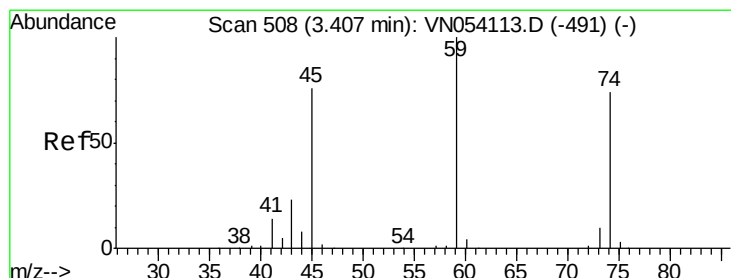
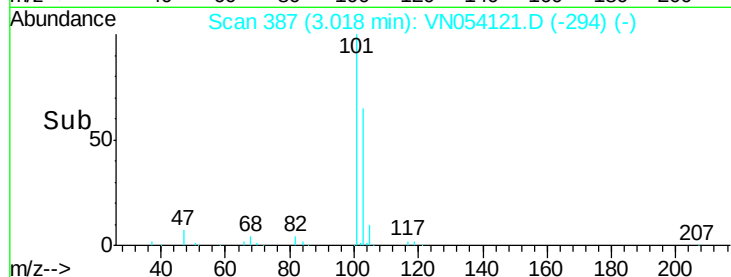
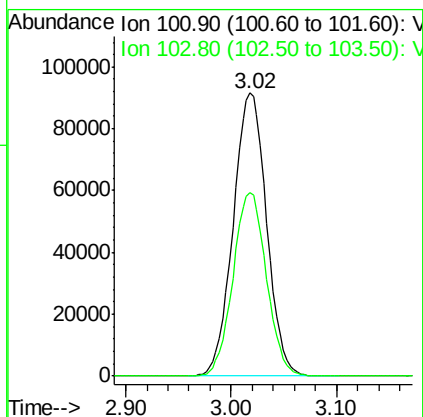
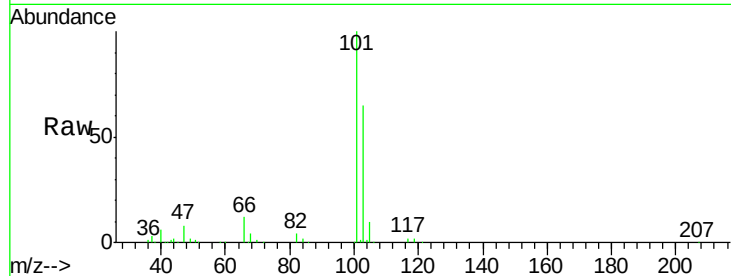
Trichlorofluoromethane
 Concen: 19.559 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.0	78.0

Manual Integrations
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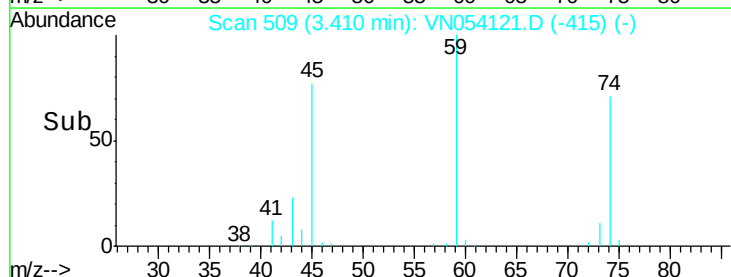
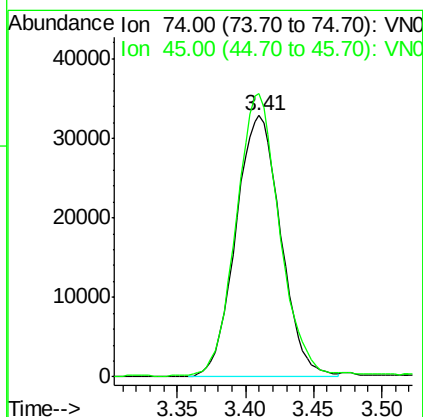
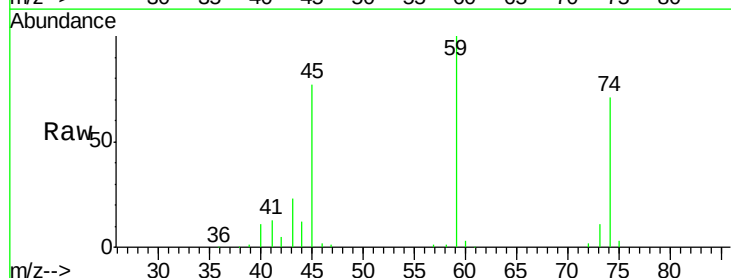
MMDadoda
 3/7/2019 11:39:27 AM

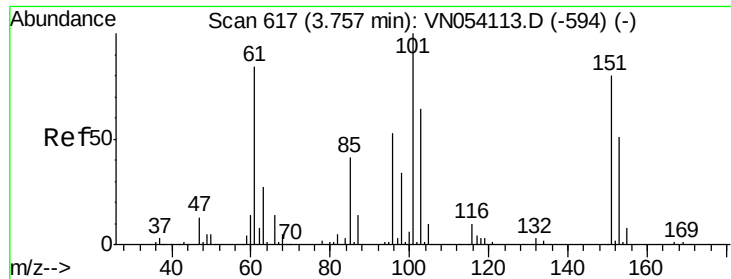


#8

Diethyl Ether
 Concen: 18.366 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.1	51.7	155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.089 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

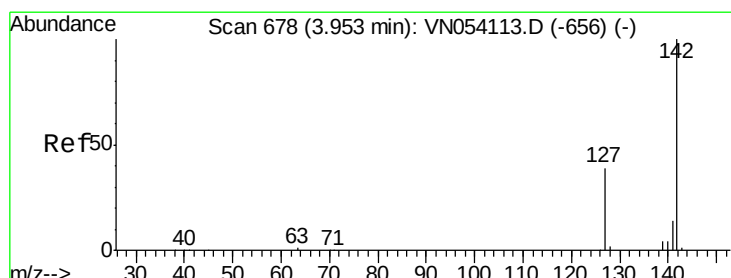
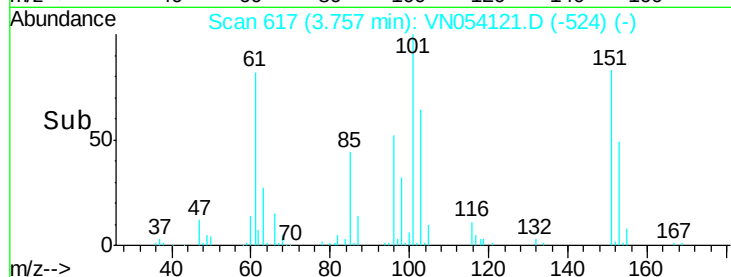
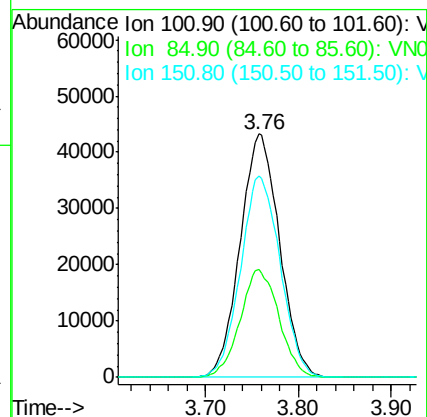
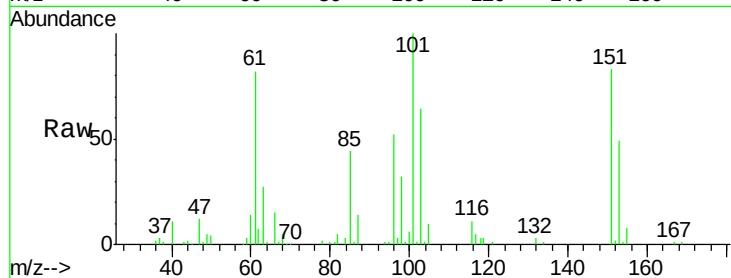
ClientSampleId :

VN0306WBS01

Tot Ion:	101	Resp:	127641
Ion Ratio	Lower	Upper	
101	100		
85	43.5	33.1	49.7
151	83.3	64.3	96.5

Manual Integrations
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MMDadoda
3/7/2019 11:39:27 AM



#10

Methyl Iodide

Concen: 19.820 ug/l

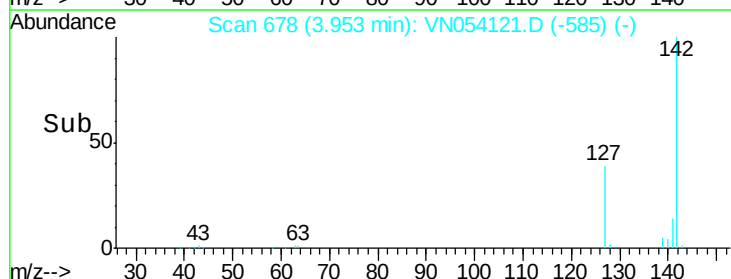
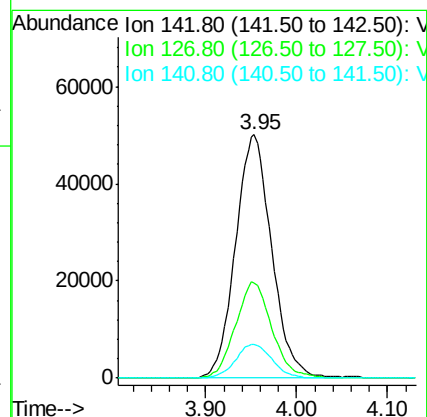
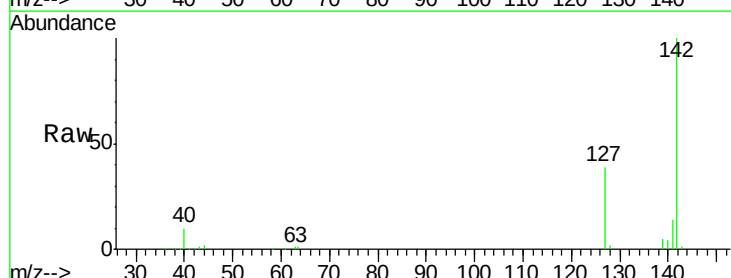
RT: 3.95 min Scan# 678

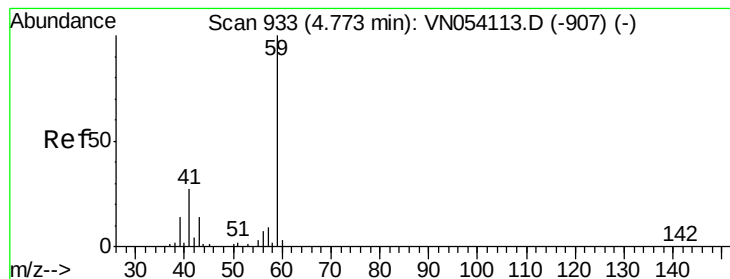
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	142	Resp:	138170
Ion Ratio	Lower	Upper	
142	100		
127	39.8	31.9	47.9
141	13.9	11.4	17.0





#11

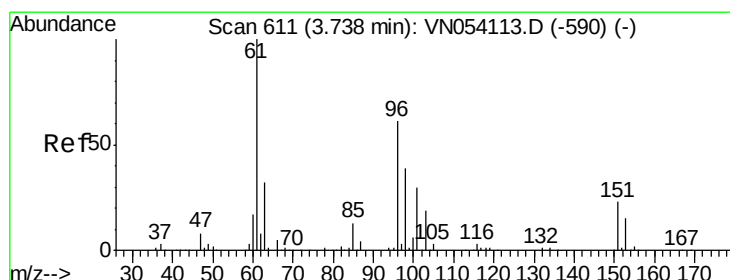
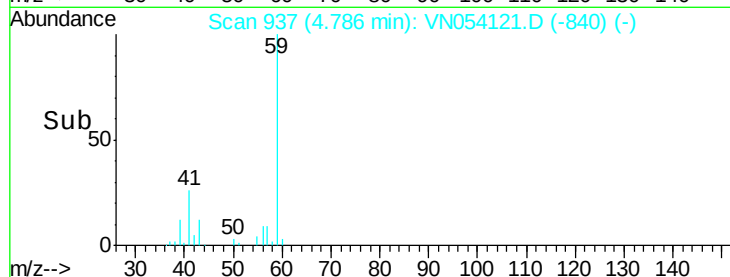
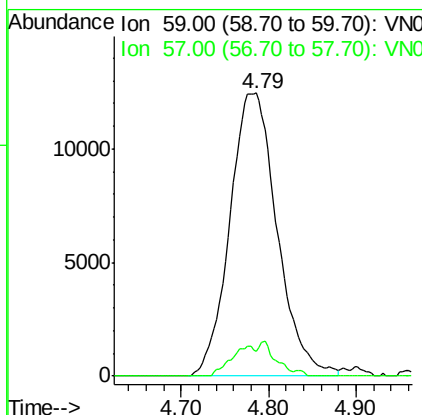
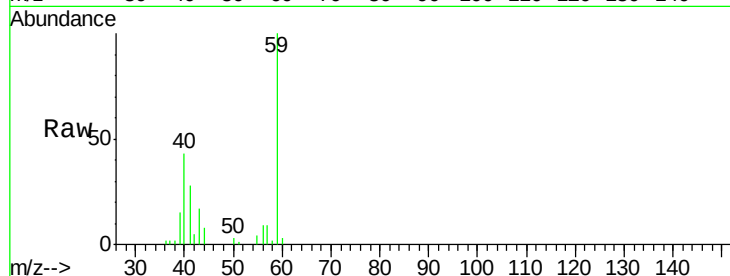
Tert butyl alcohol
Concen: 98.993 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion: 59 Resp: 46730
Ion Ratio Lower Upper
59 100
57 5.6 8.2 12.4#

Manual Integrations
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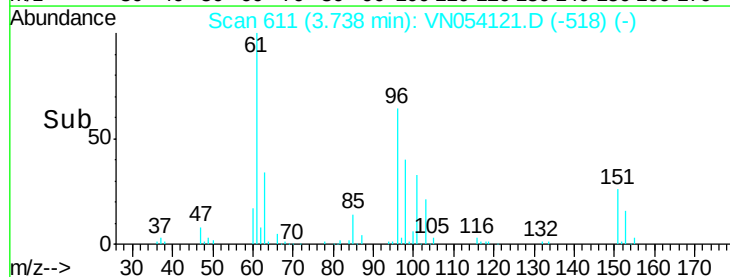
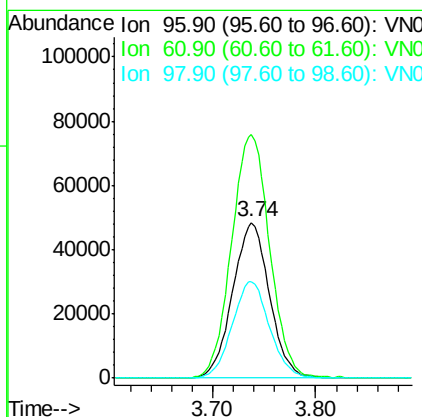
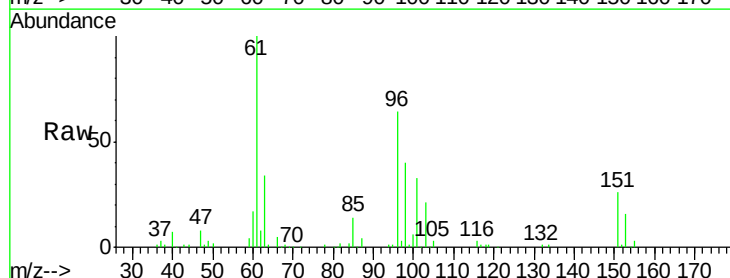
MMDadoda
3/7/2019 11:39:27 AM

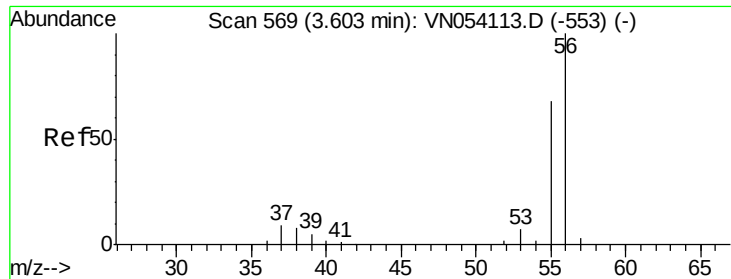


#12

1,1-Dichloroethene
Concen: 19.303 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 96 Resp: 120409
Ion Ratio Lower Upper
96 100
61 156.5 131.2 196.8
98 62.0 50.7 76.1





#13

Acrolein

Concen: 69.402 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBS01

Tot Ion: 56 Resp: 21796

Ion Ratio Lower Upper

56 100

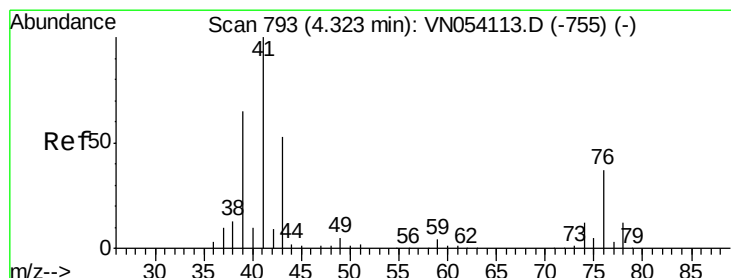
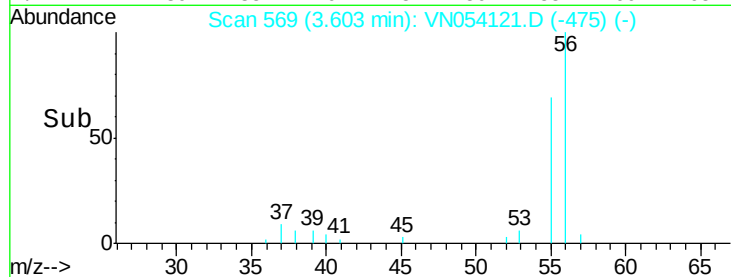
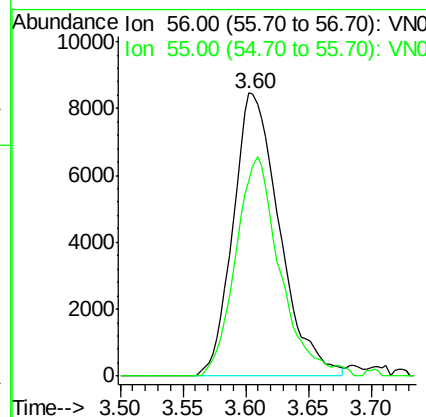
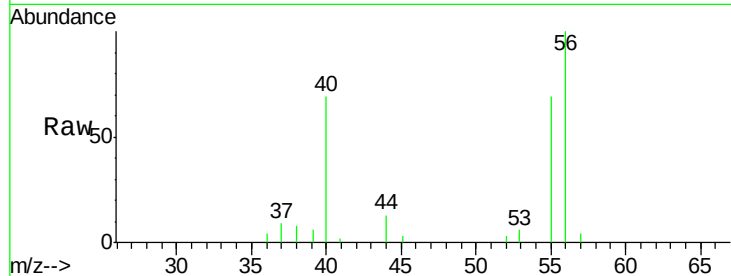
55 73.9 57.1 85.7

Manual Integrations

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MMDadoda

3/7/2019 11:39:27 AM



#14

Allyl chloride

Concen: 19.005 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

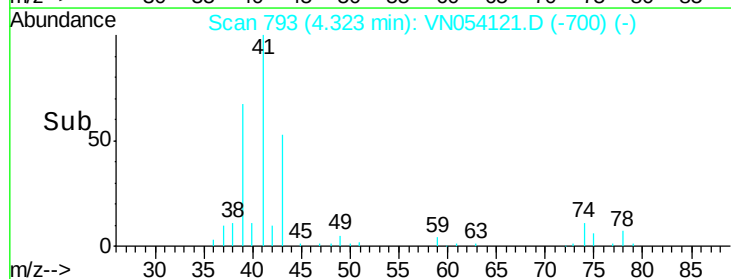
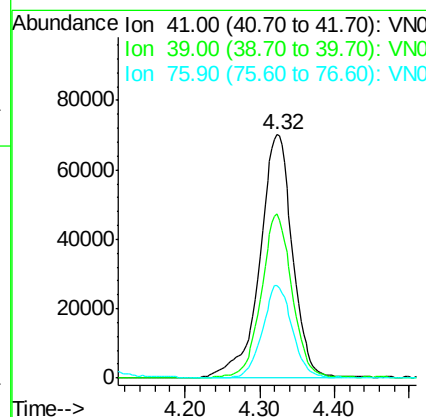
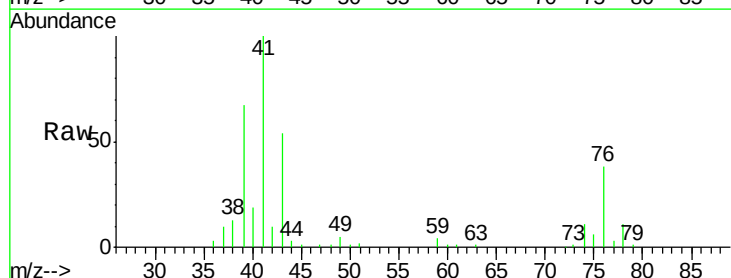
Tgt Ion: 41 Resp: 213613

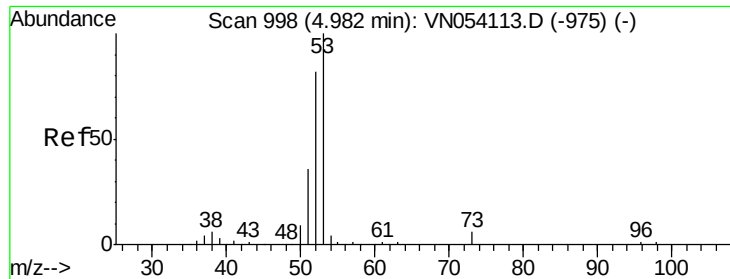
Ion Ratio Lower Upper

41 100

39 63.6 49.3 73.9

76 34.5 26.5 39.7





#15

Acrylonitrile

Concen: 93.049 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

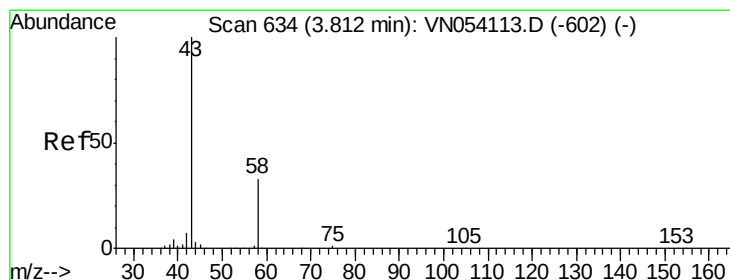
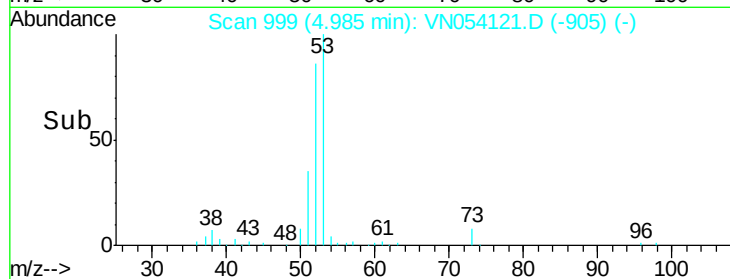
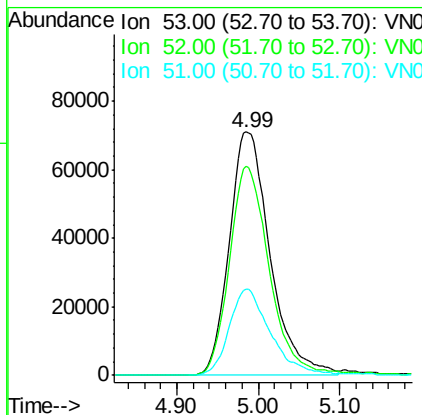
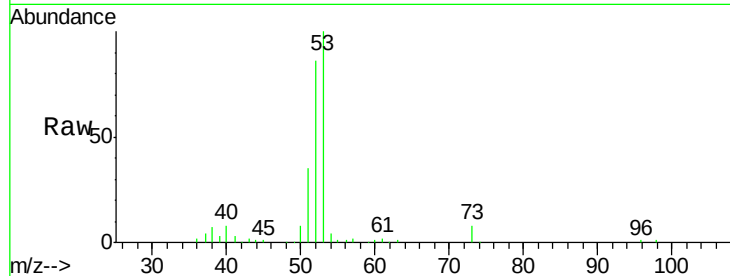
ClientSampled :

VN0306WBS01

Tot Ion:	53	Resp:	247927
Ion Ratio	Lower	Upper	
53	100		
52	83.0	64.6	97.0
51	35.8	28.6	42.8

Manual Integrations
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MMDadoda
3/7/2019 11:39:27 AM



#16

Acetone

Concen: 96.946 ug/l

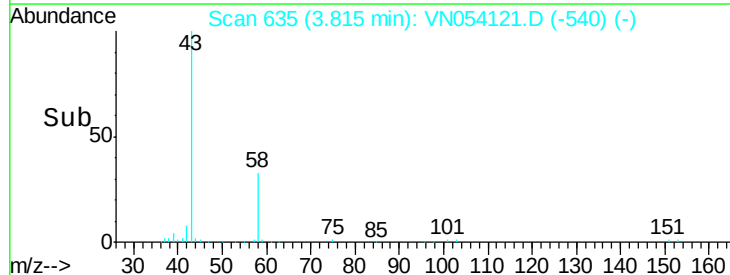
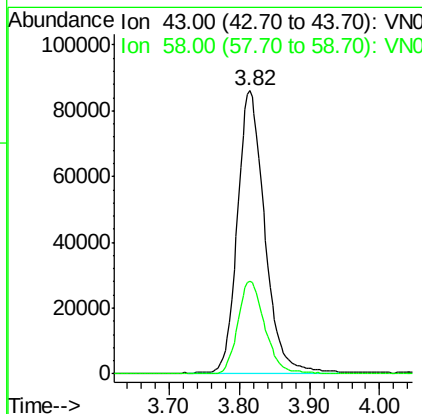
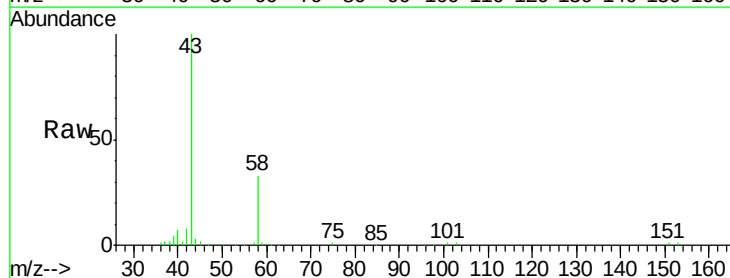
RT: 3.82 min Scan# 635

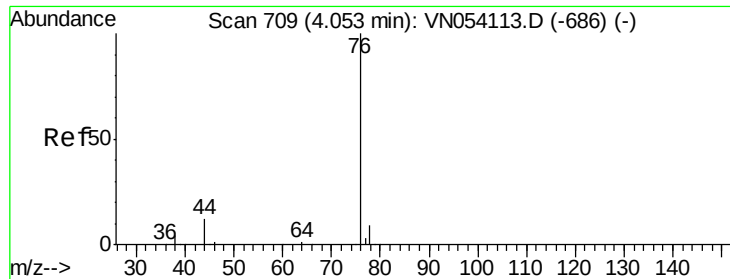
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	43	Resp:	231681
Ion Ratio	Lower	Upper	
43	100		
58	32.9	26.5	39.7





#17

Carbon Disulfide

Concen: 19.232 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

VN0306WBS01

Tot Ion: 76 Resp: 357659

Ion Ratio Lower Upper

76 100

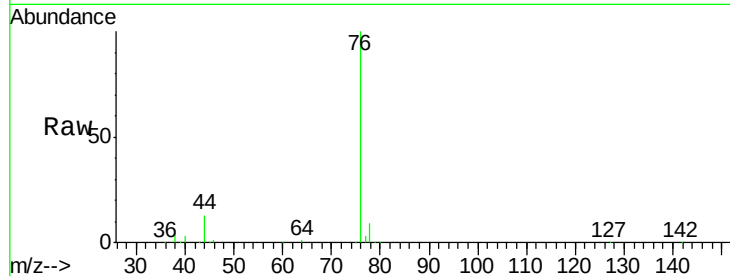
78 9.2 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

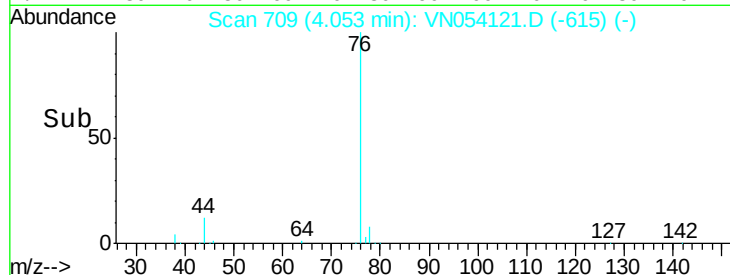
150000

100000

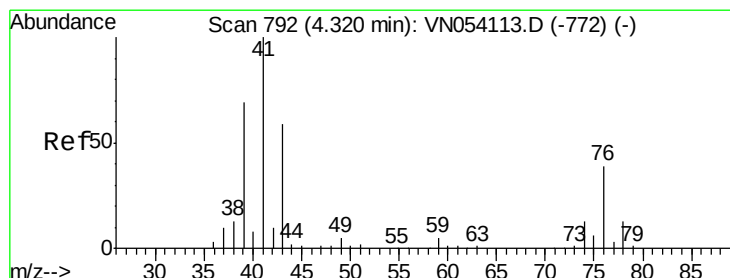
50000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 19.587 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054121.D

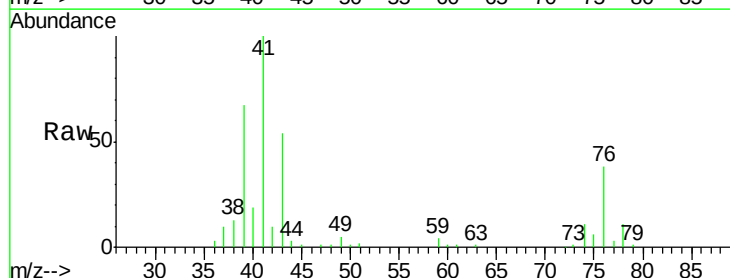
Acq: 6 Mar 2019 17:20

Tgt Ion: 43 Resp: 109101

Ion Ratio Lower Upper

43 100

74 21.8 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

40000

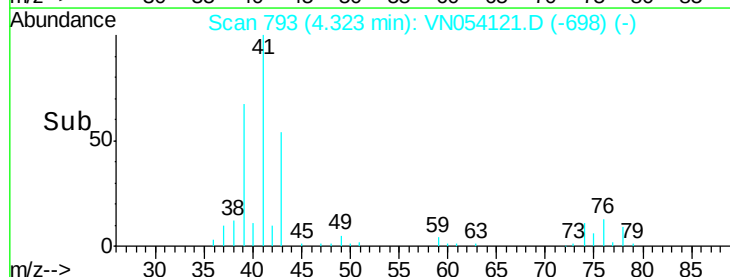
30000

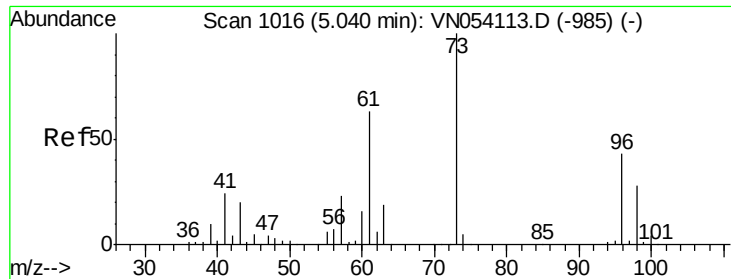
20000

10000

0

Time-->





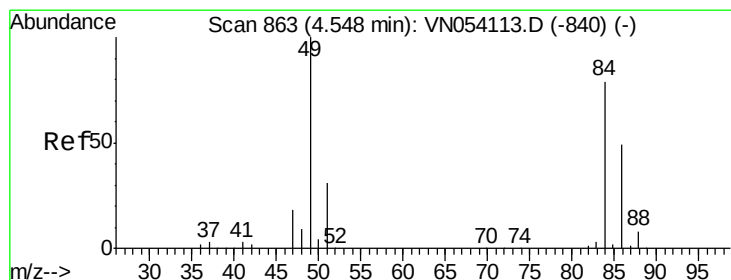
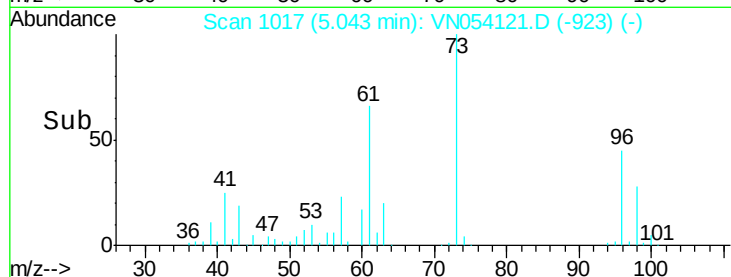
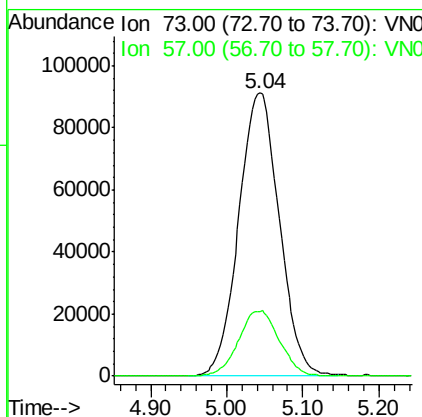
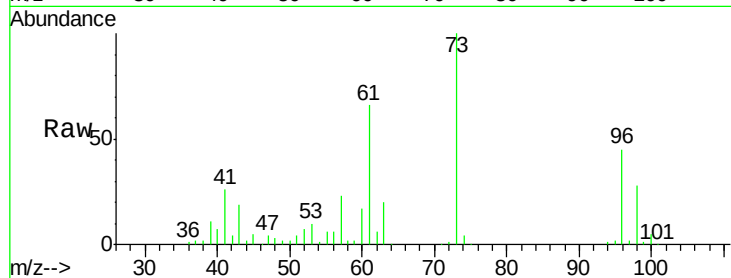
#19
Methyl tert-butyl Ether
Concen: 19.364 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBS01

Tot Ion: 73 Resp: 338985
Ion Ratio Lower Upper
73 100
57 22.9 18.2 27.4

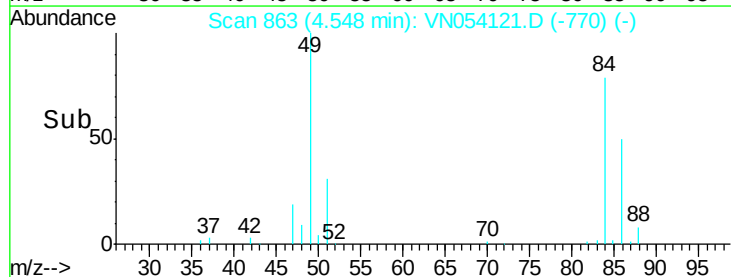
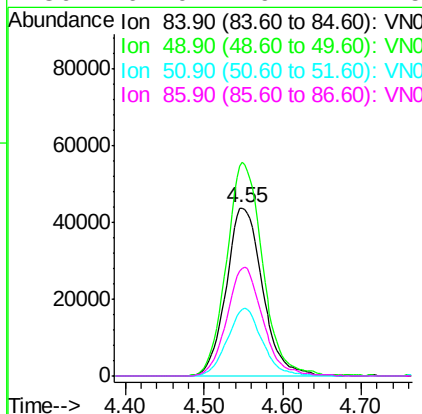
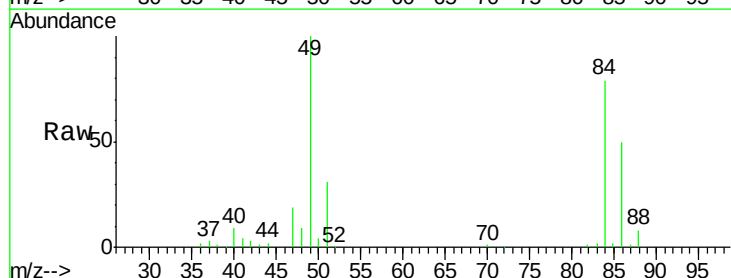
Manual Integrations
APPROVED

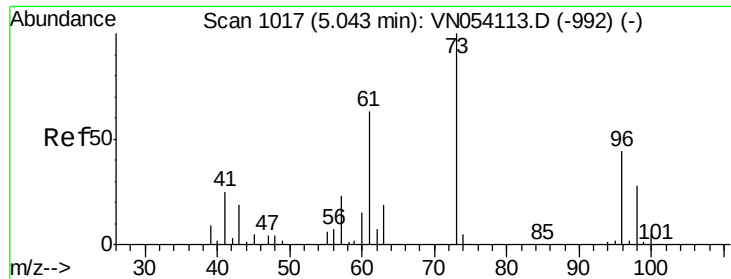
MMDadoda
3/7/2019 11:39:27 AM



#20
Methylene Chloride
Concen: 19.633 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 84 Resp: 140055
Ion Ratio Lower Upper
84 100
49 126.9 101.8 152.8
51 39.8 31.1 46.7
86 64.0 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 18.946 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

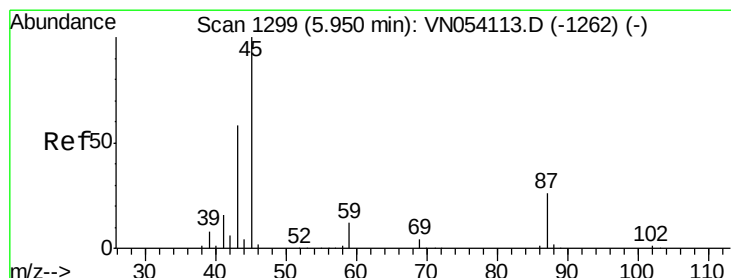
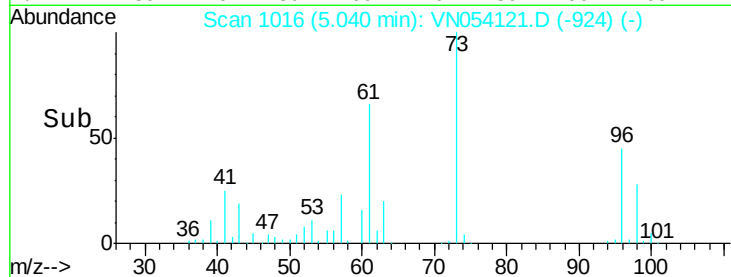
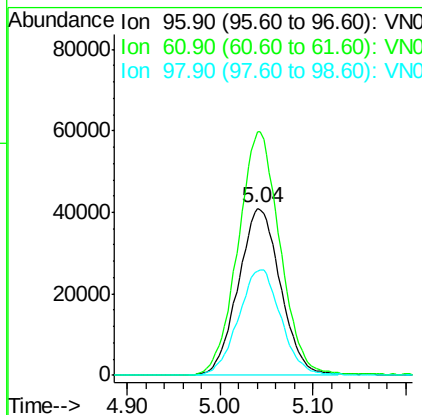
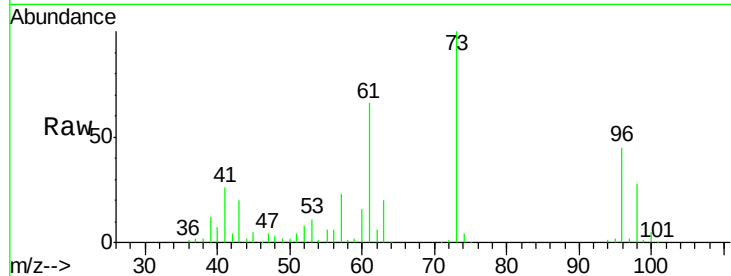
ClientSampled :

VN0306WBS01

Tot Ion:	96	Resp:	129744
Ion	Ratio	Lower	Upper
96	100		
61	145.8	114.8	172.2
98	62.4	51.4	77.0

Manual Integrations
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MMDadoda
3/7/2019 11:39:27 AM



#22

Diisopropyl ether

Concen: 19.763 ug/l

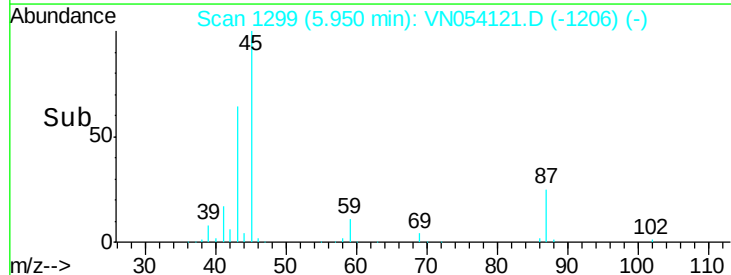
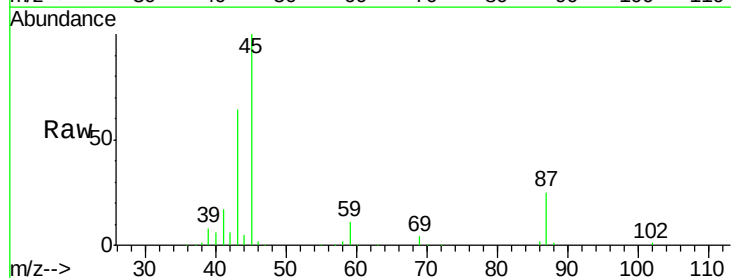
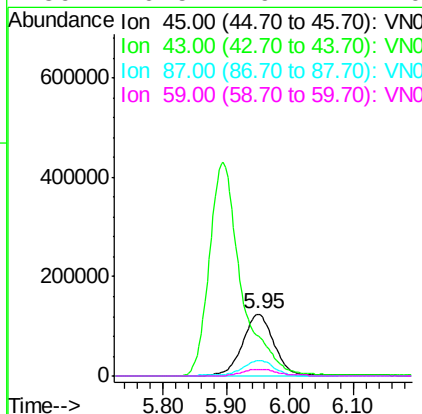
RT: 5.95 min Scan# 1299

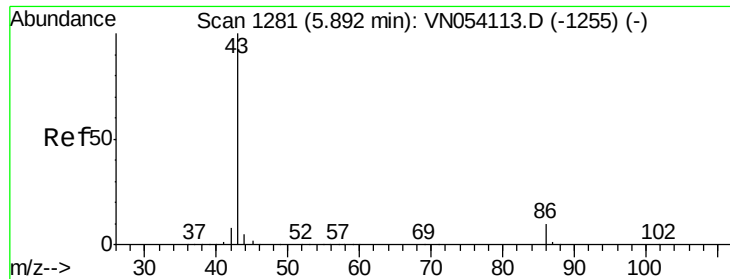
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	45	Resp:	432796
Ion	Ratio	Lower	Upper
45	100		
43	61.1	46.2	69.4
87	24.5	20.6	31.0
59	10.5	9.4	14.0





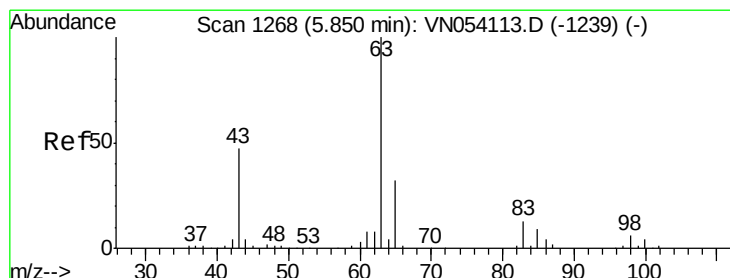
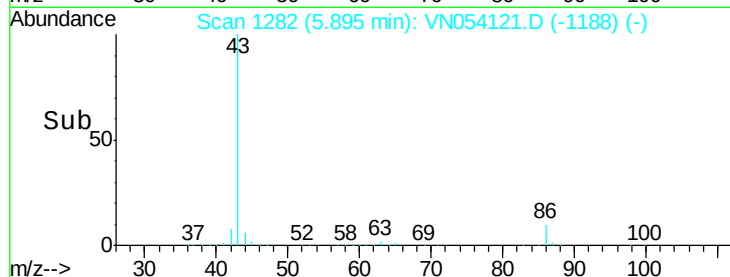
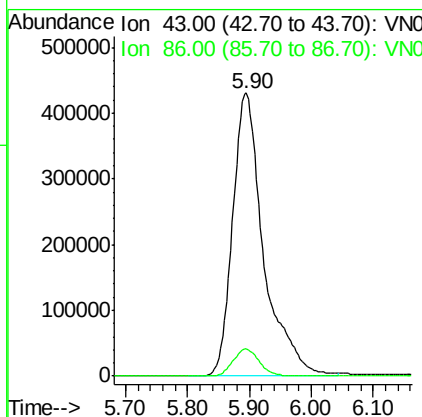
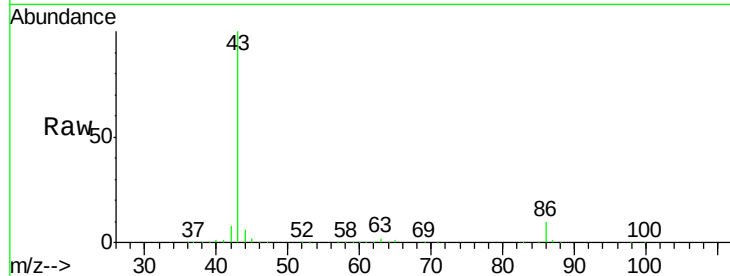
#23
 Vinyl Acetate
 Concen: 96.366 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion: 43 Resp: 1499058
 Ion Ratio Lower Upper
 43 100
 86 9.6 7.8 11.8

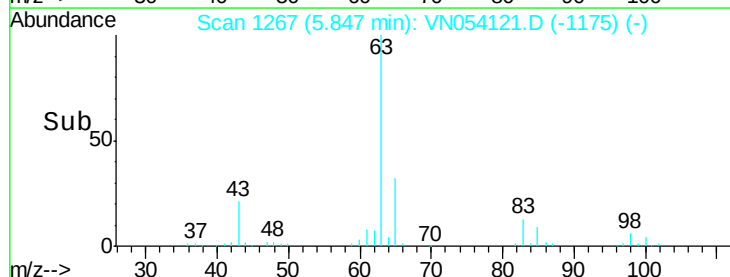
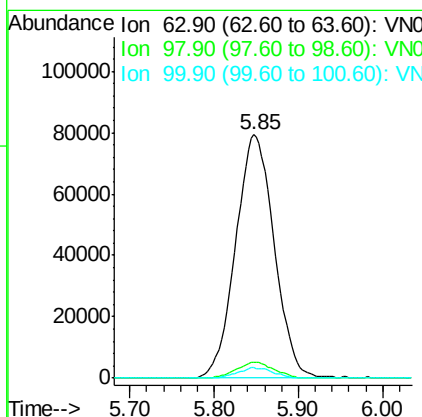
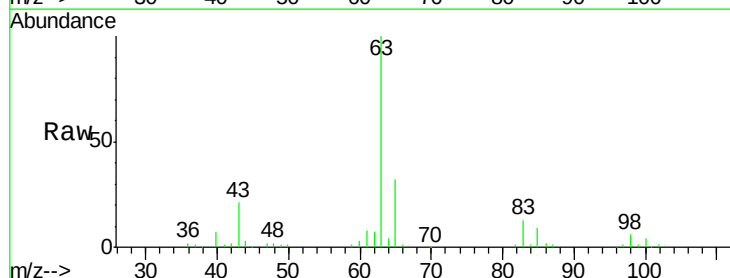
Manual Integrations
 APPROVED

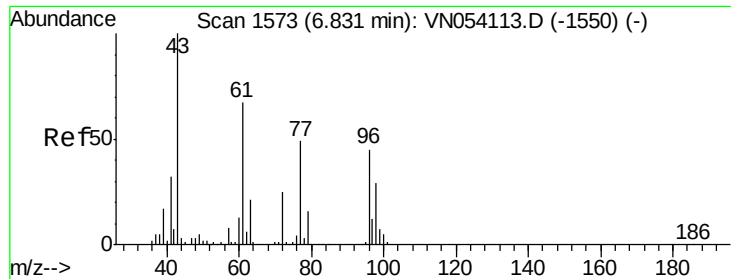
MMDadoda
 3/7/2019 11:39:27 AM



#24
 1,1-Dichloroethane
 Concen: 19.236 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion: 63 Resp: 252040
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.1 9.4
 100 4.3 2.0 6.0





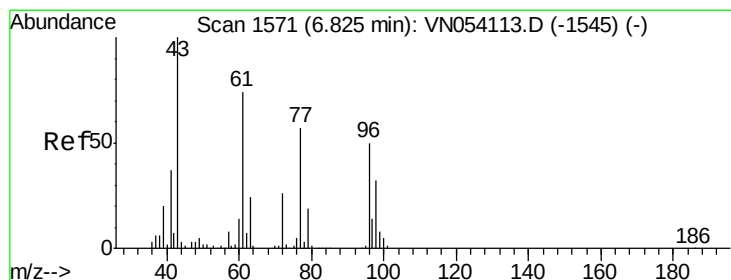
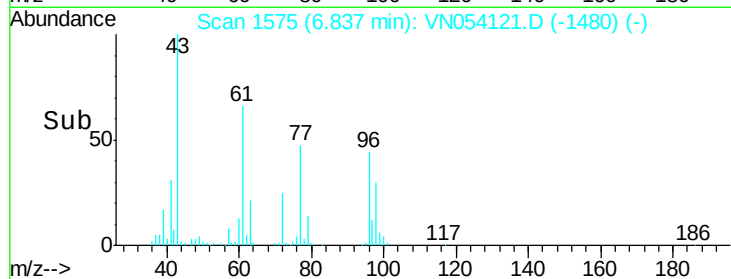
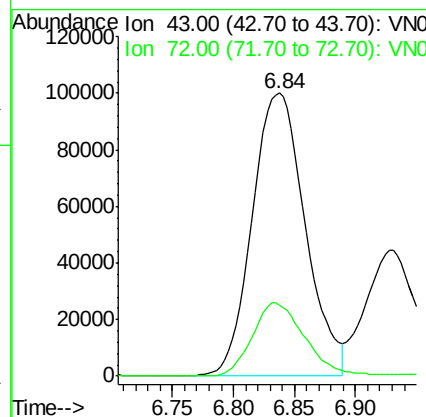
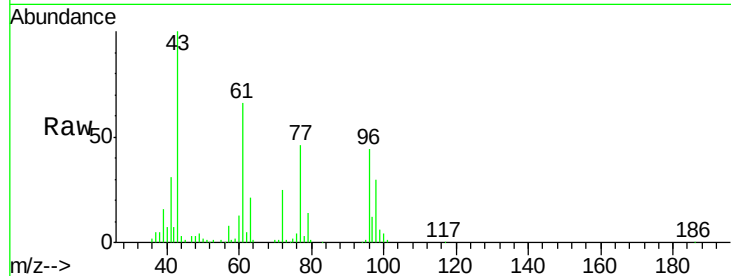
#25
2-Butanone
Concen: 94.479 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion: 43 Resp: 300408
Ion Ratio Lower Upper
43 100
72 25.1 20.2 30.2

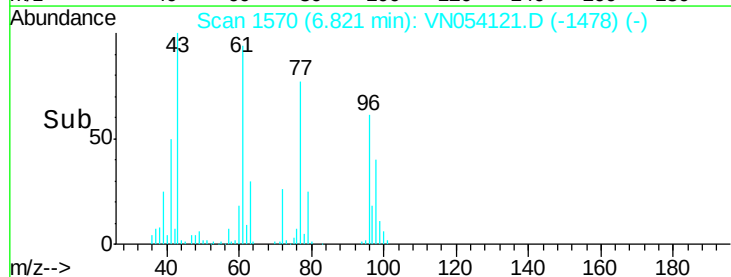
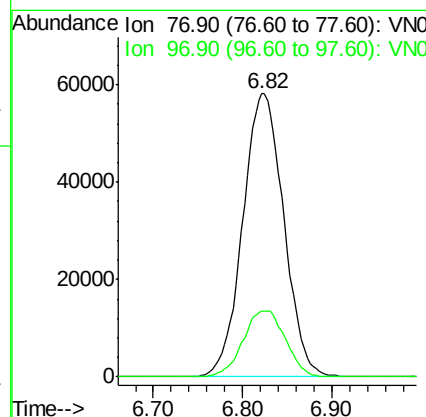
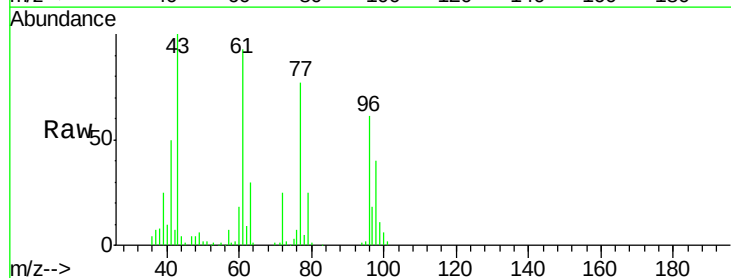
Manual Integrations
APPROVED

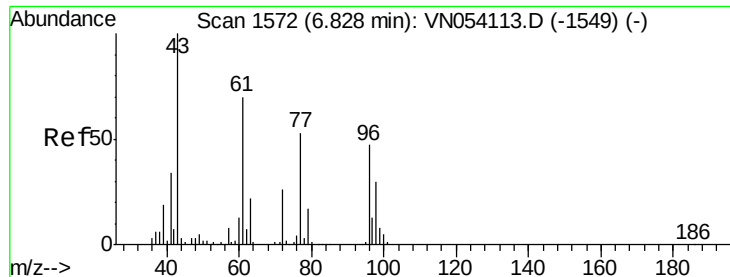
MMDadoda
3/7/2019 11:39:27 AM



#26
2,2-Dichloropropane
Concen: 19.686 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 77 Resp: 185912
Ion Ratio Lower Upper
77 100
97 24.1 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 19.326 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

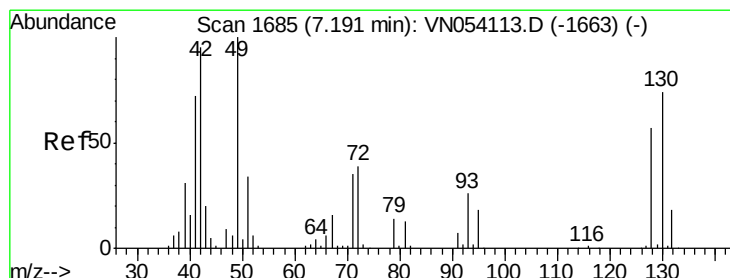
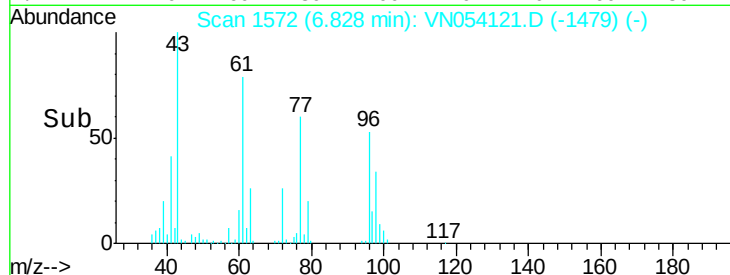
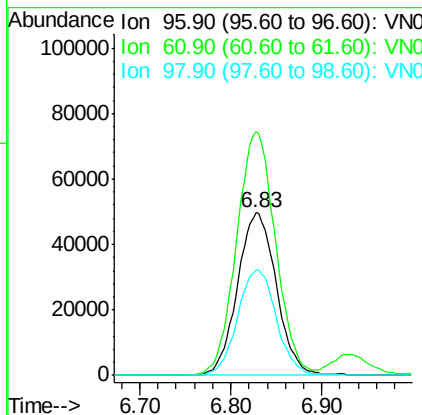
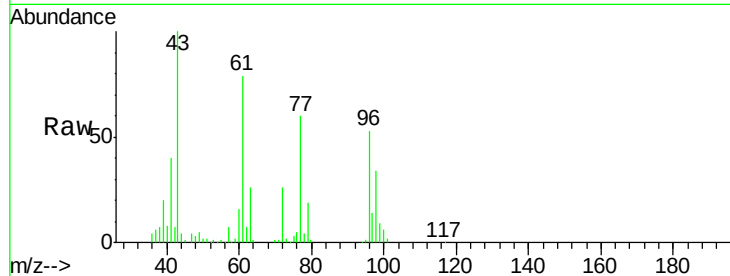
ClientSampled :

VN0306WBS01

Tot Ion:	96	Resp:	147573
Ion	Ratio	Lower	Upper
96	100		
61	150.2	0.0	297.0
98	64.9	0.0	129.4

Manual Integrations
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#28

Bromochloromethane

Concen: 20.002 ug/l

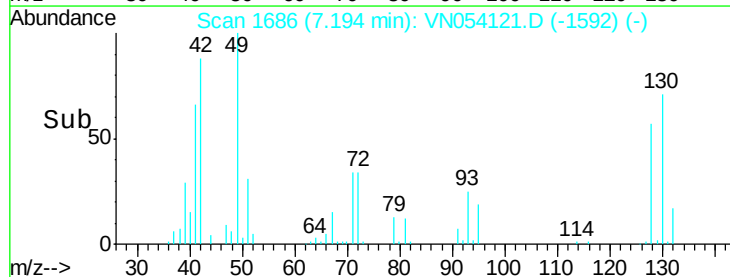
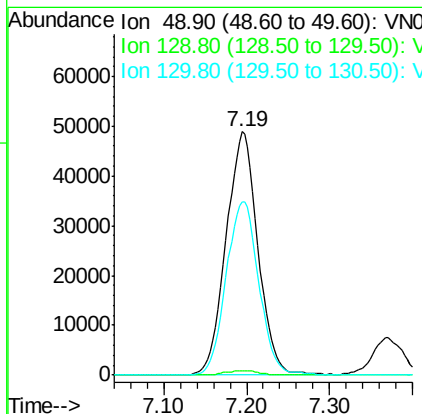
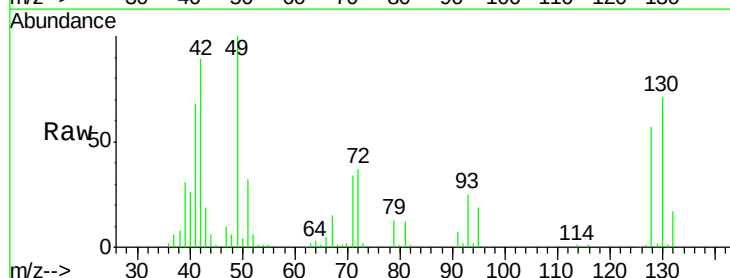
RT: 7.19 min Scan# 1686

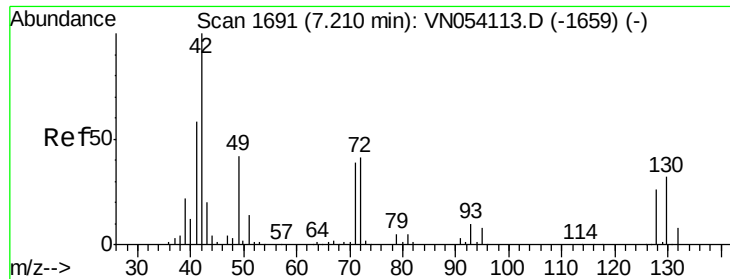
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	49	Resp:	130805
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	3.8
130	73.1	59.4	89.2





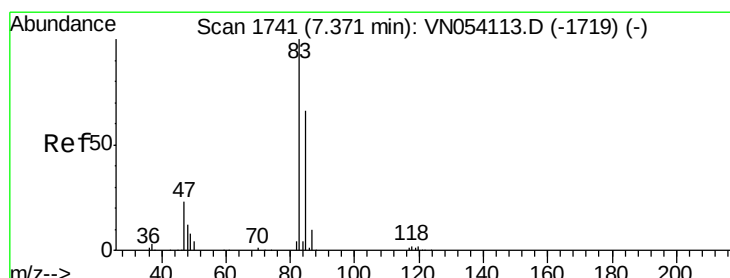
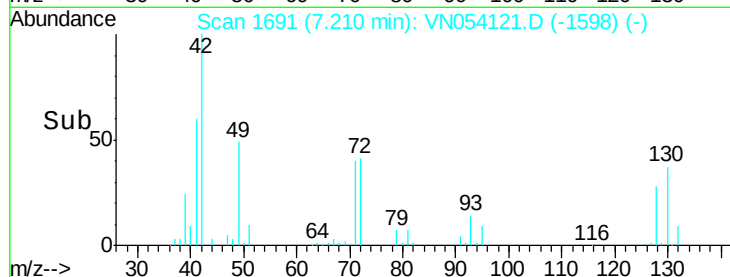
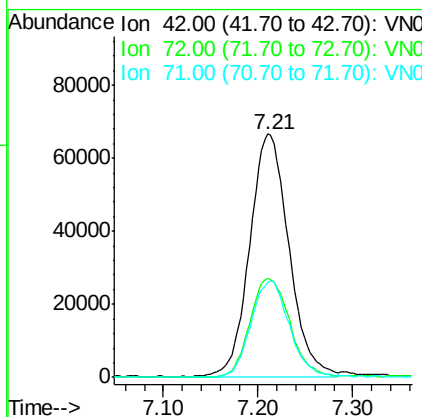
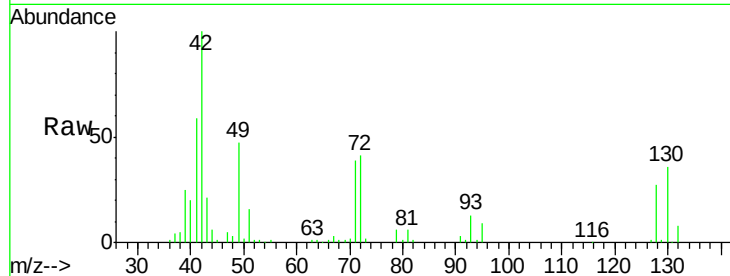
#29
Tetrahydrofuran
Concen: 91.499 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	32.8	49.2
71	39.0	30.5	45.7

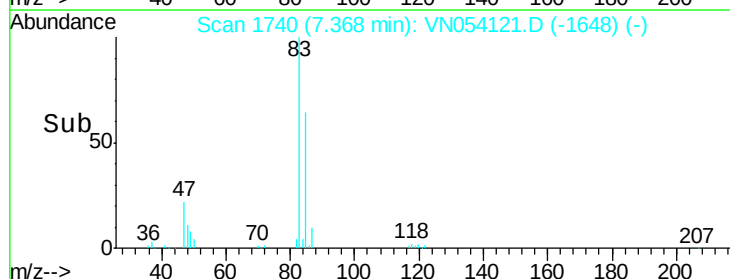
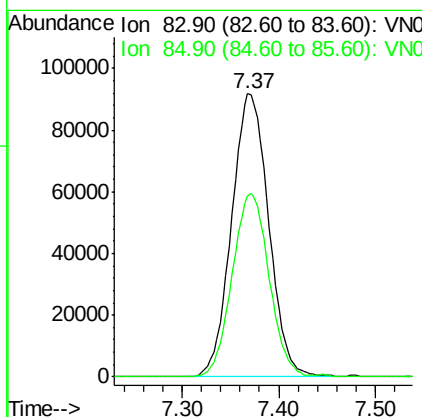
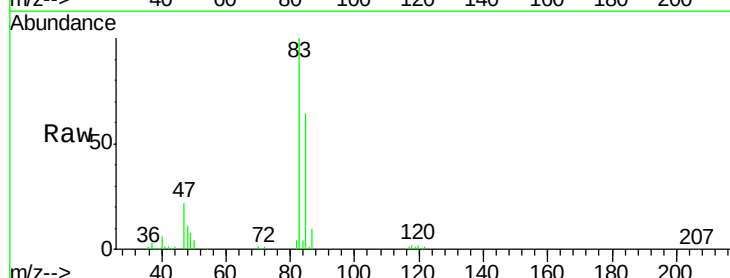
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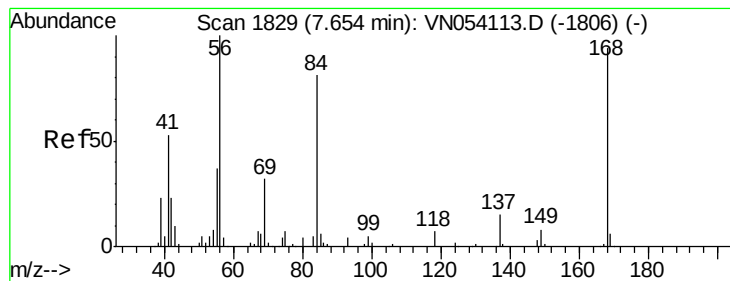
MMDadoda
3/7/2019 11:39:27 AM



#30
Chloroform
Concen: 19.470 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.1	79.7





#31

Cyclohexane

Concen: 20.084 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

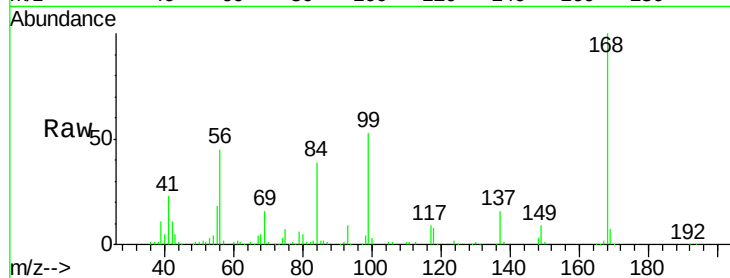
ClientSampled :

VN0306WBS01

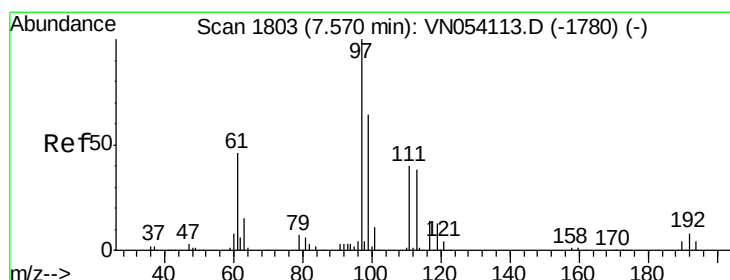
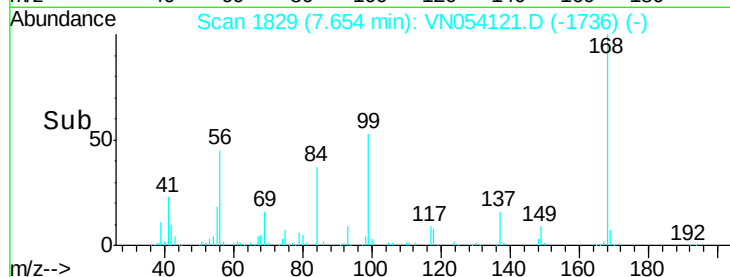
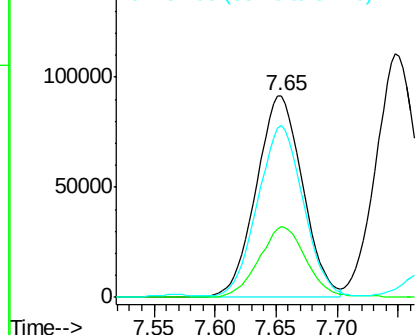
Tot Ion	56	Resp	241938
Ion	Ratio	Lower	Upper
56	100		
69	35.0	25.5	38.3
84	84.2	64.5	96.7

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.217 ug/l

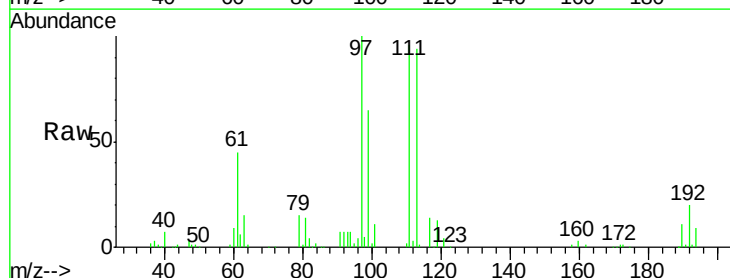
RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

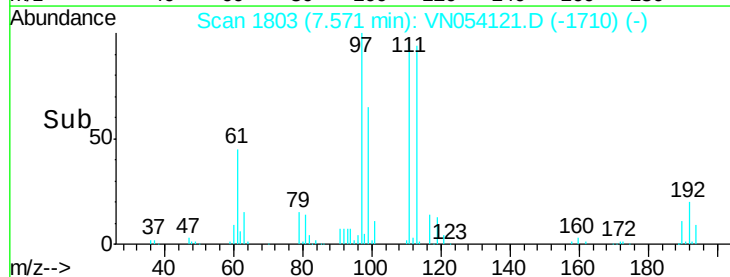
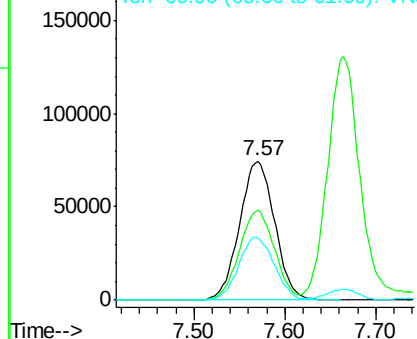
Lab File: VN054121.D

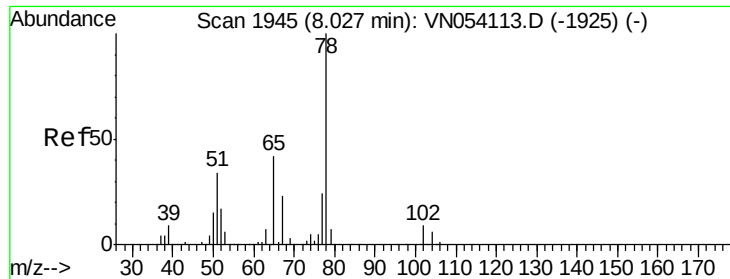
Acq: 6 Mar 2019 17:20

Tgt Ion	97	Resp	200028
Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.2	76.8
61	45.7	37.1	55.7



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





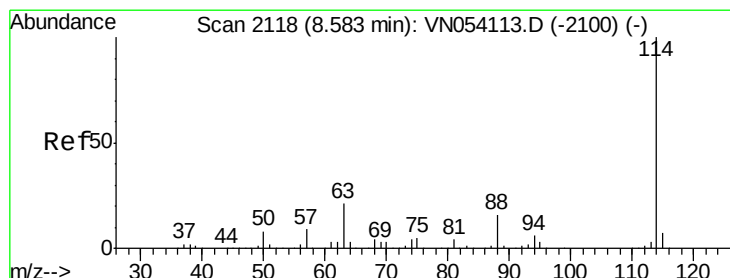
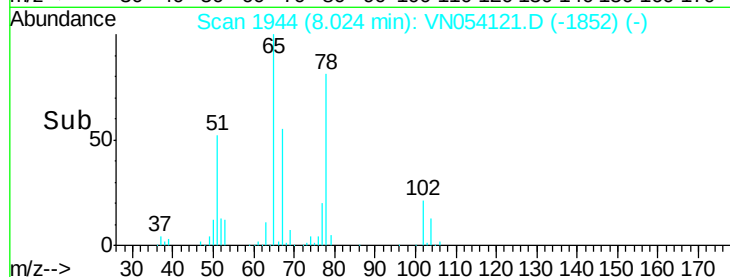
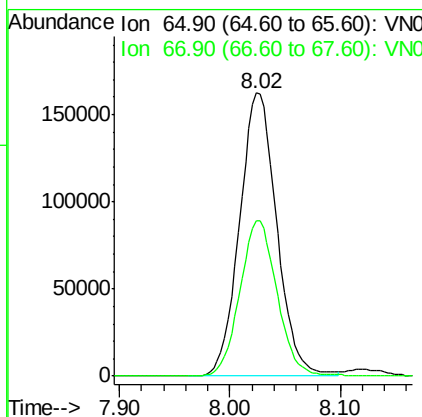
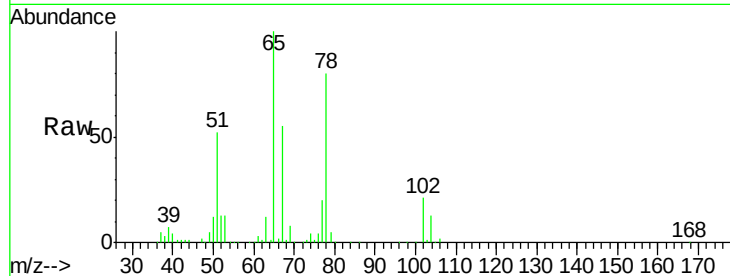
#33
 1,2-Dichloroethane-d4
 Concen: 48.946 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.0	0.0	109.6	

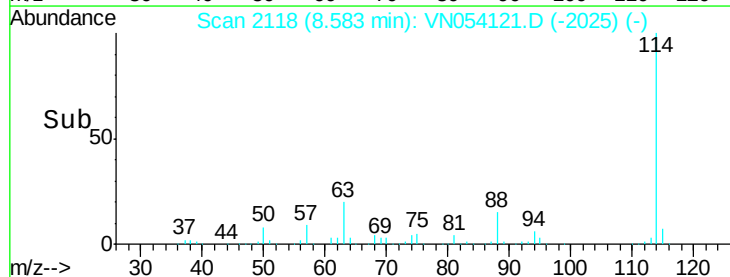
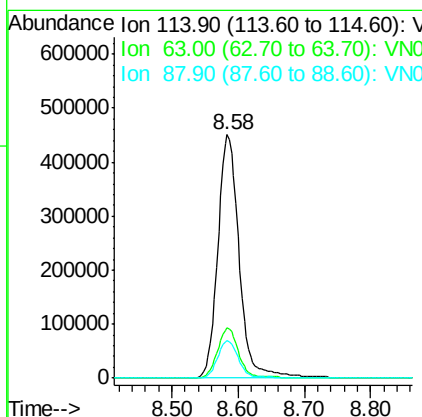
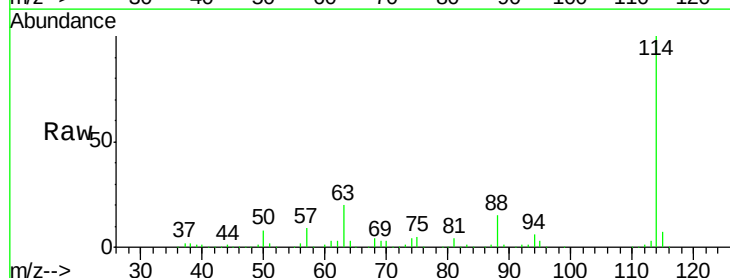
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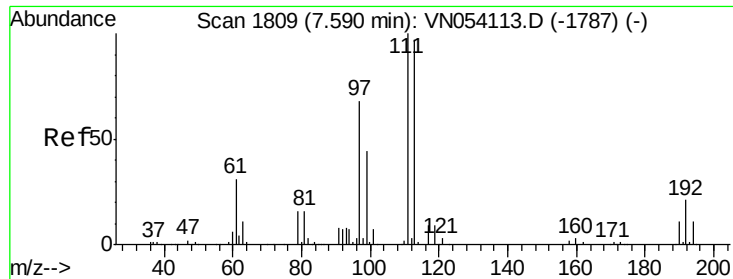
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 3/7/2019 11:39:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.5	0.0	42.6	
88	15.3	0.0	31.8	





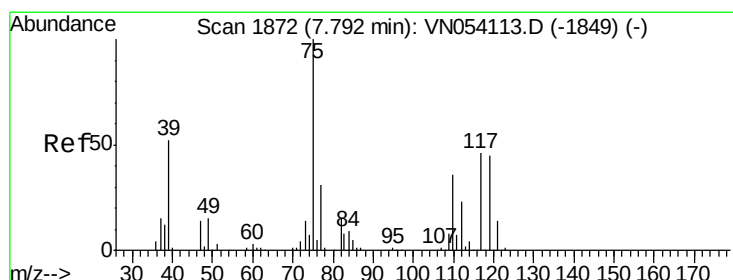
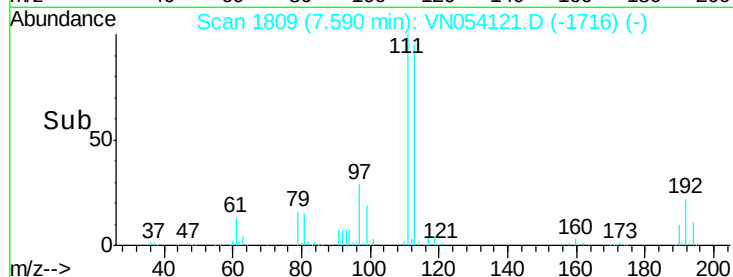
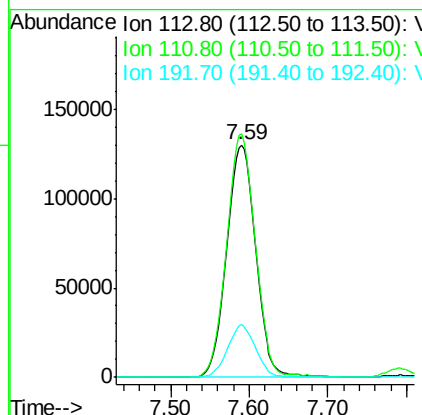
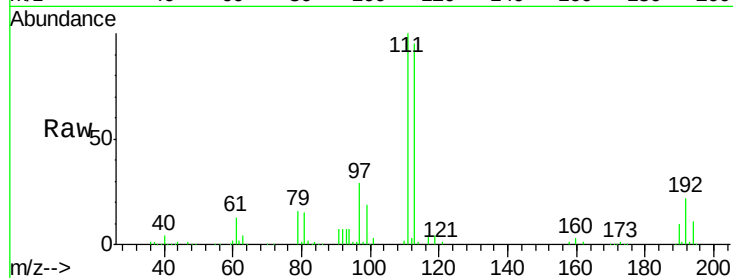
#35
 Dibromofluoromethane
 Concen: 50.606 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.0	82.1	123.1	
192	21.8	17.4	26.0	

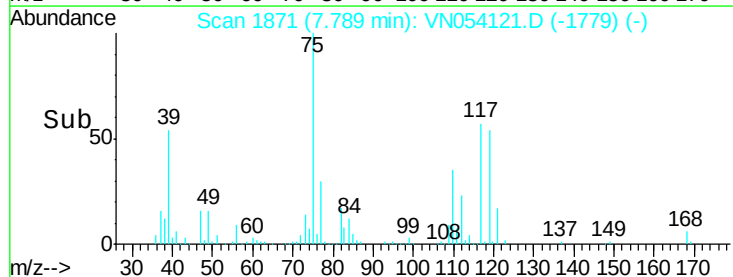
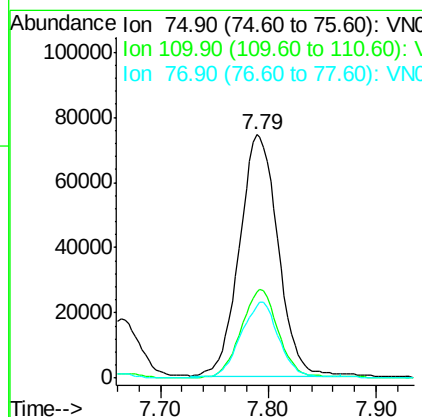
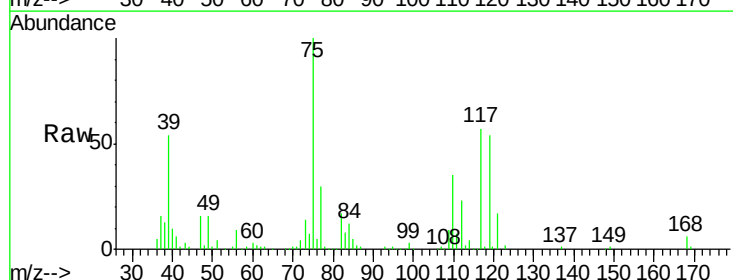
Manual Integrations
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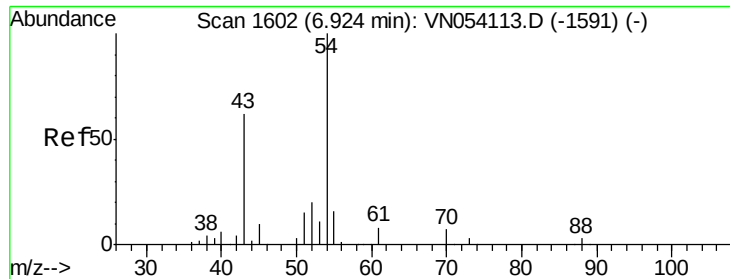
MMDadoda
 3/7/2019 11:39:27 AM



#36
 1,1-Dichloropropene
 Concen: 19.201 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.9	18.0	54.0	
77	31.5	25.3	37.9	





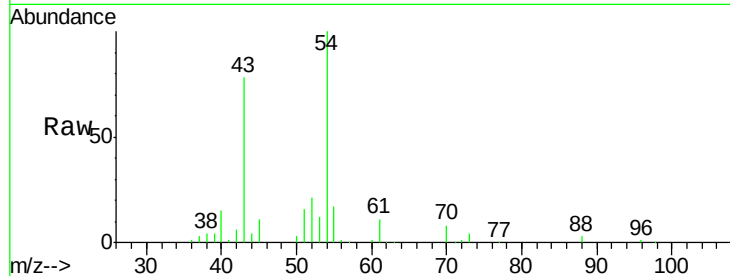
#37
Ethyl Acetate
Concen: 19.015 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBS01

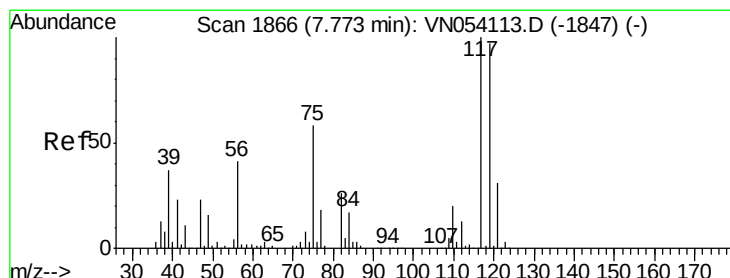
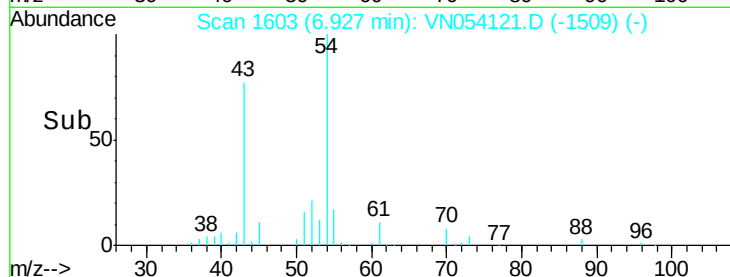
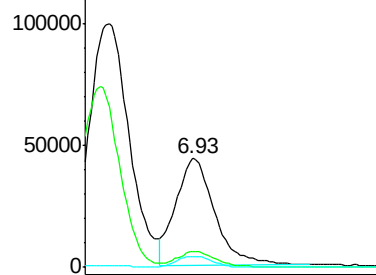
Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.1	16.7
70	9.5	7.6	11.4

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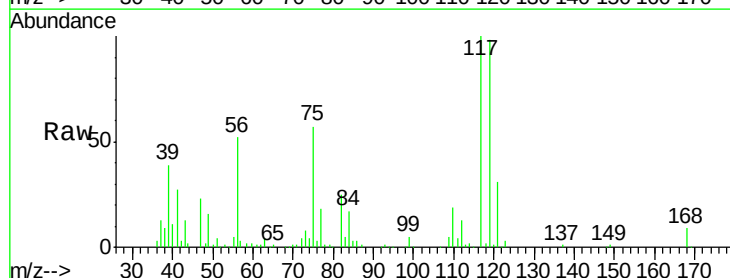


Abundance Ion 43.00 (42.70 to 43.70): VN054121.D (-1602) (-)

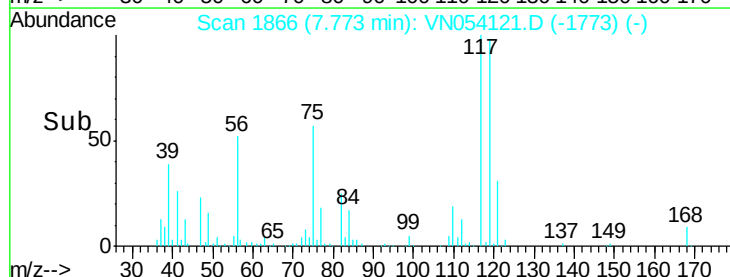
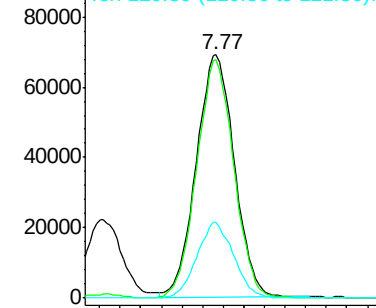


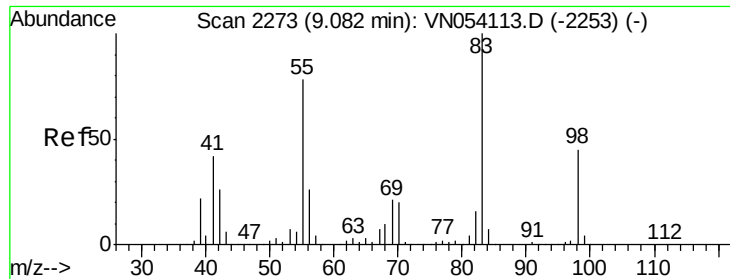
#38
Carbon Tetrachloride
Concen: 19.590 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	77.0	115.6
121	31.3	24.3	36.5



Abundance Ion 116.80 (116.50 to 117.50): VN054121.D (-1866) (-)





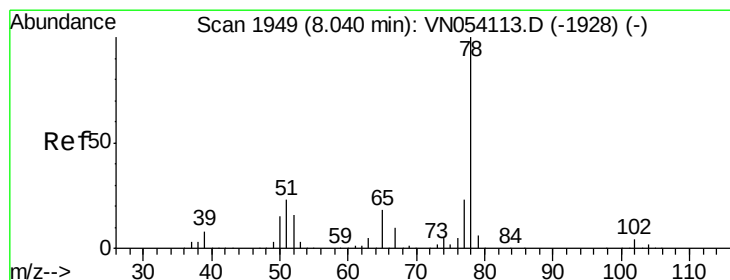
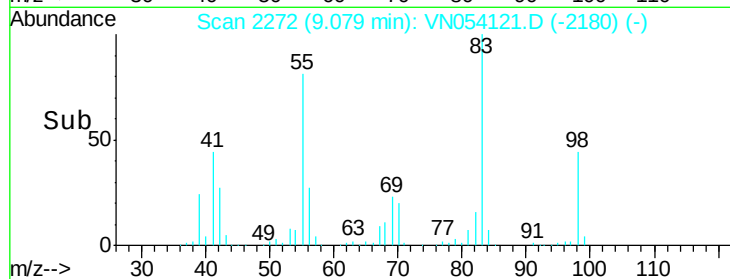
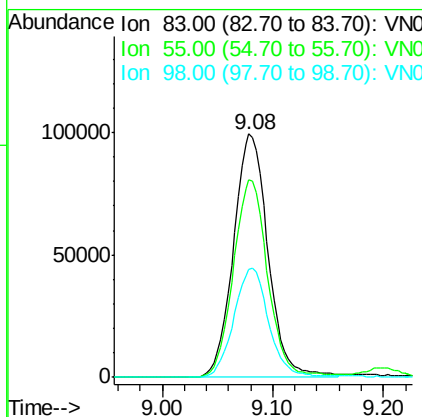
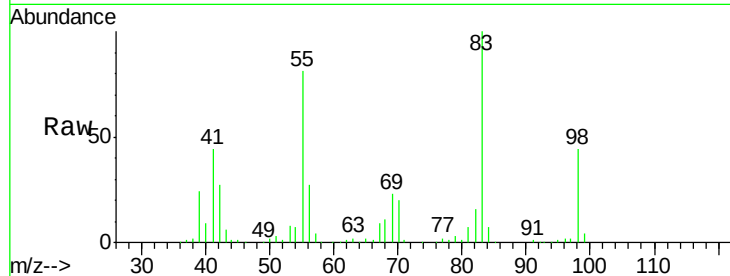
#39
Methylvlcyclohexane
Concen: 19.715 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.0	62.1	93.1
98	44.3	36.0	54.0

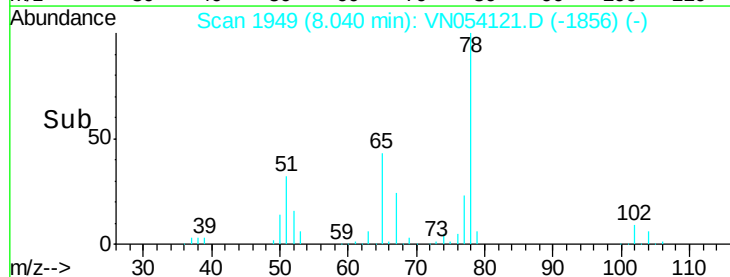
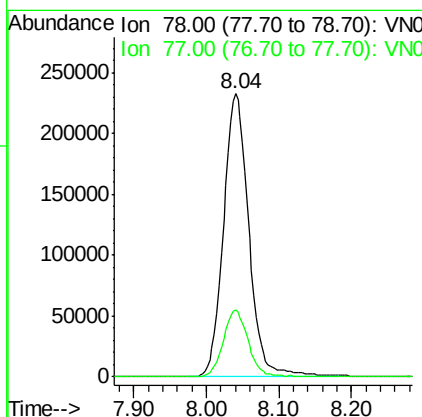
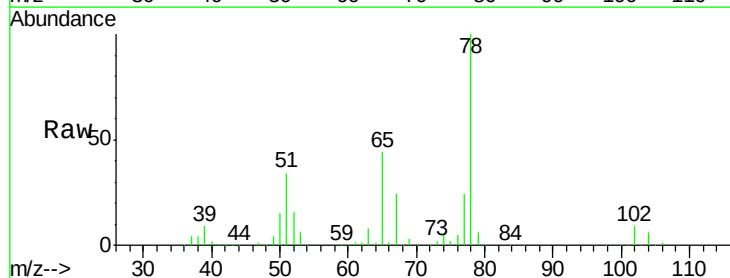
Manual Integrations
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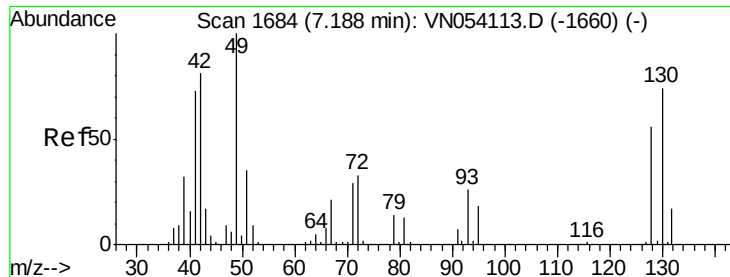
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#40
Benzene
Concen: 20.138 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1





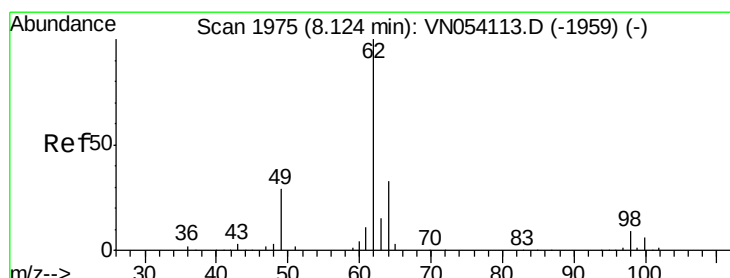
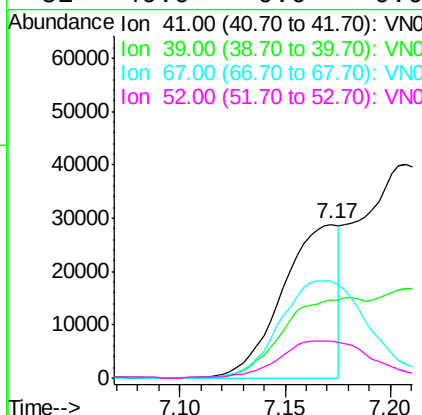
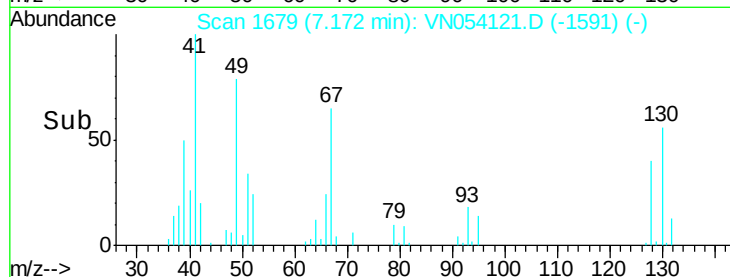
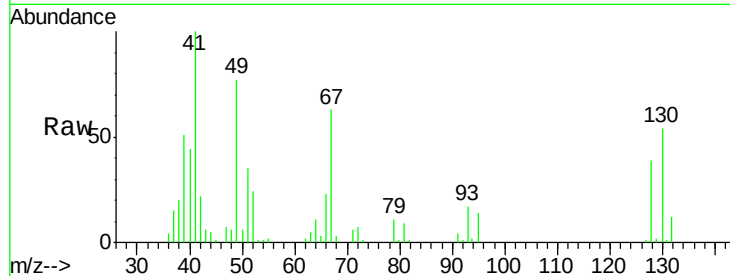
#41
Methacrylonitrile
Concen: 15.007 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion	41	Resp	53482
Ion	Ratio	Lower	Upper
41	100		
39	73.6	0.0	0.0#
67	101.8	0.0	0.0#
52	40.9	0.0	0.0#

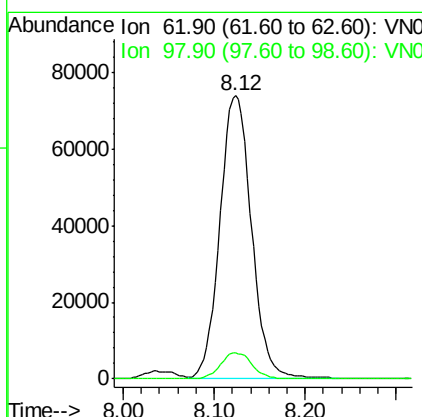
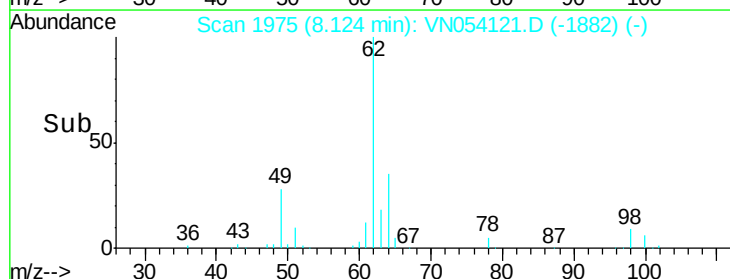
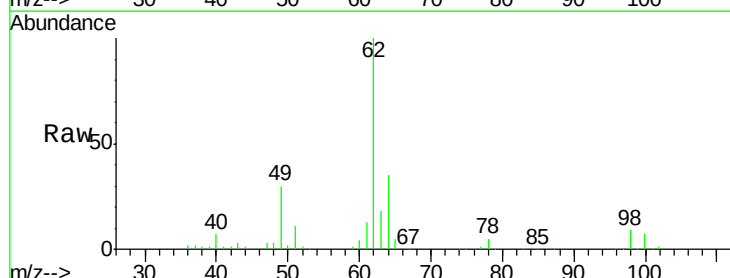
Manual Integrations
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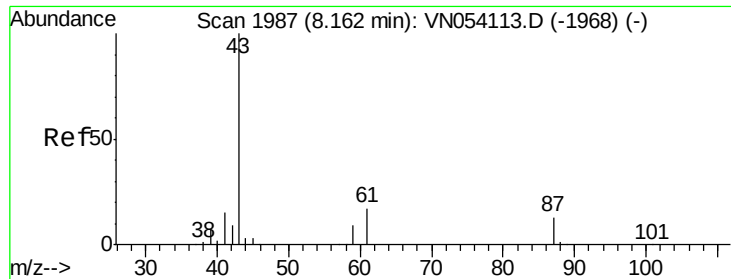
MMDadoda
3/7/2019 11:39:27 AM



#42
1,2-Dichloroethane
Concen: 19.917 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	62	Resp	177375
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.6





#43

Isopropyl Acetate

Concen: 19.656 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

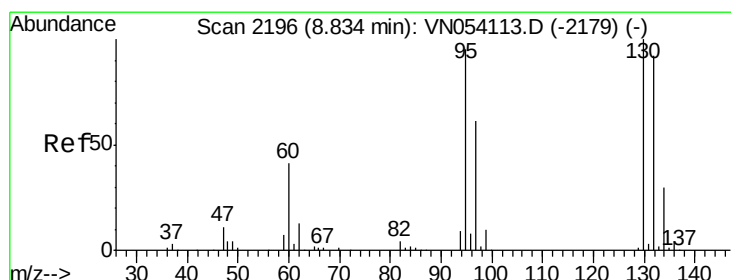
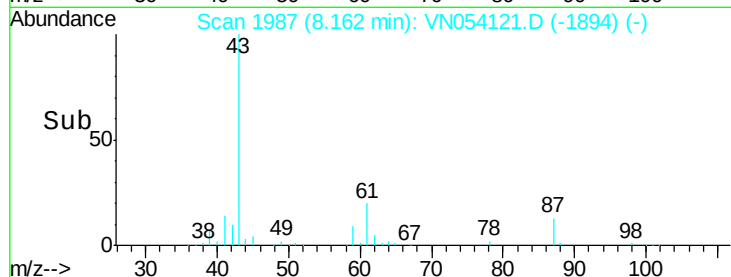
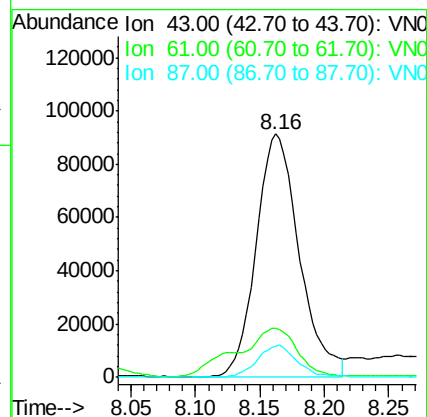
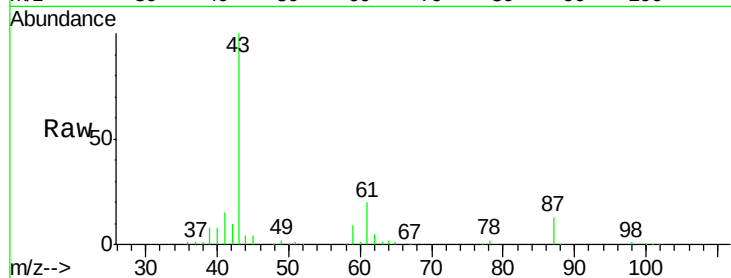
ClientSampleId :

VN0306WBS01

Tot Ion:	43	Resp:	211916
Ion	Ratio	Lower	Upper
43	100		
61	19.5	22.5	33.7#
87	12.3	10.1	15.1

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#44

Trichloroethene

Concen: 19.894 ug/l

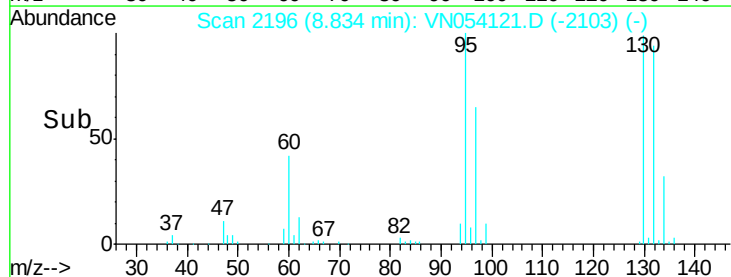
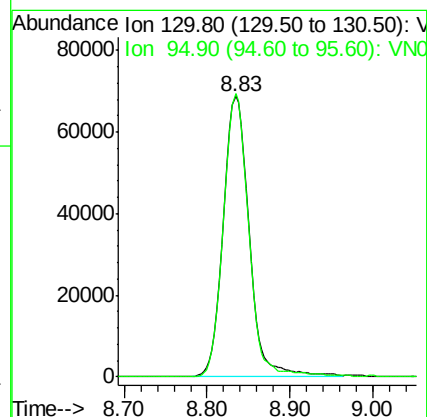
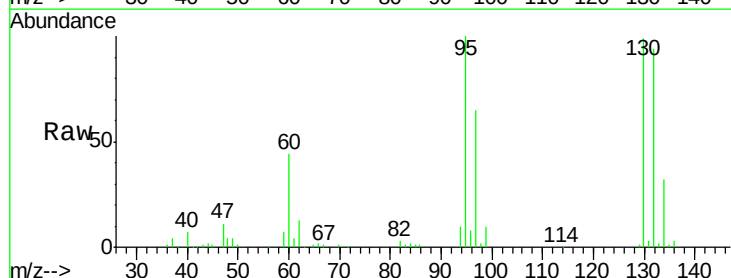
RT: 8.83 min Scan# 2196

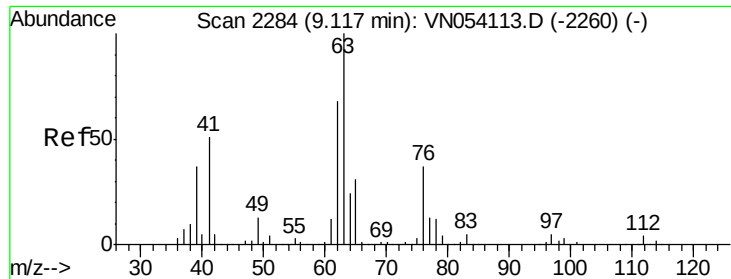
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	130	Resp:	149978
Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	189.4





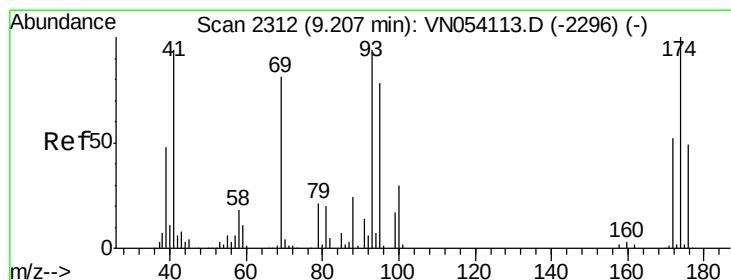
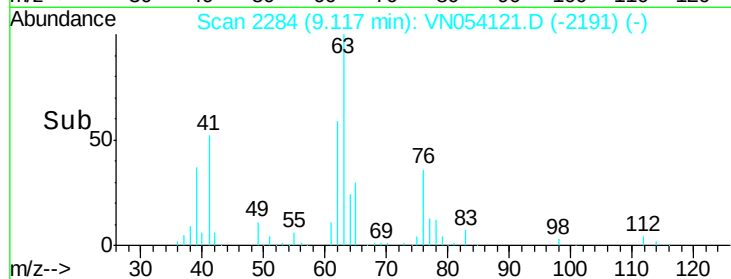
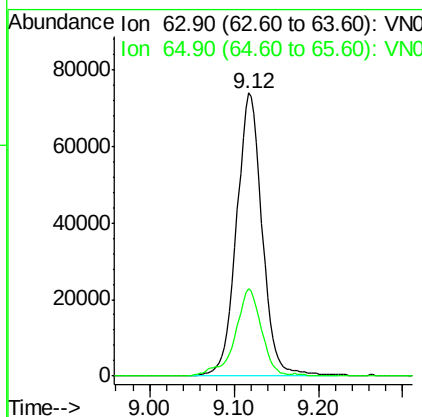
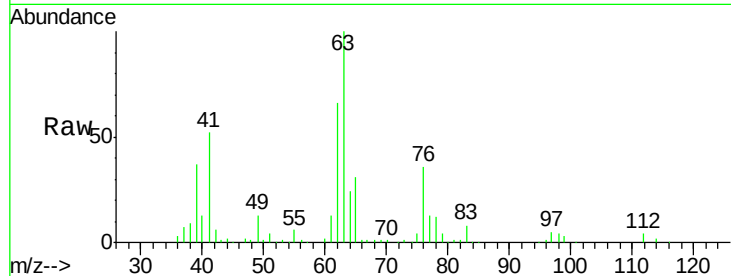
#45
 1,2-Dichloropropane
 Concen: 20.268 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	63	Resp	157177
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	36.8

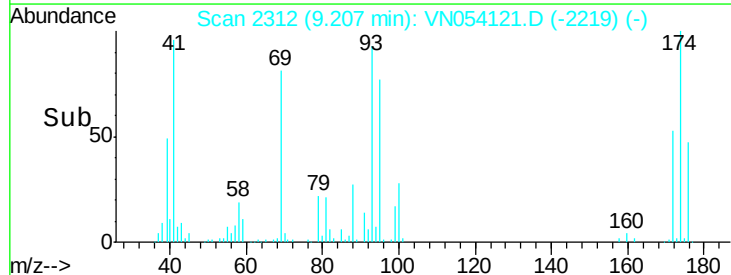
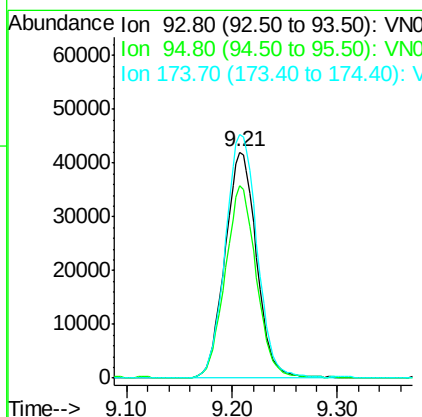
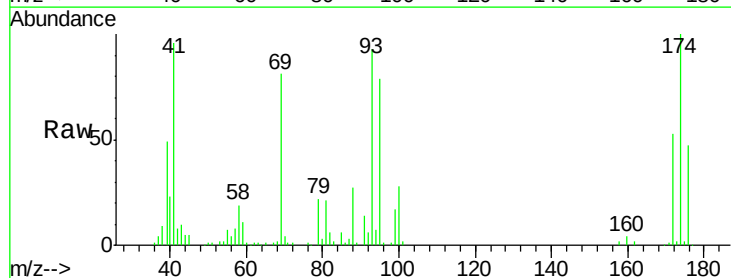
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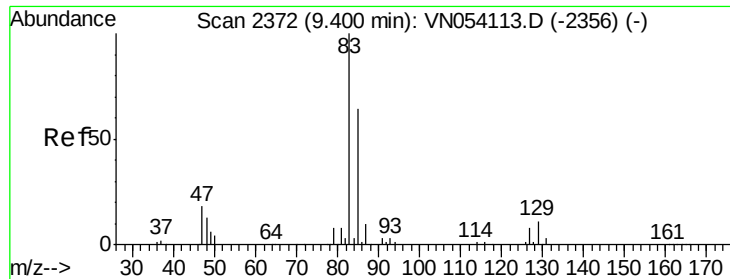
MMDadoda
 3/7/2019 11:39:27 AM



#46
 Dibromomethane
 Concen: 19.665 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	93	Resp	87054
Ion	Ratio	Lower	Upper
93	100		
95	84.2	66.1	99.1
174	109.0	86.1	129.1





#47

Bromodichloromethane

Concen: 19.806 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

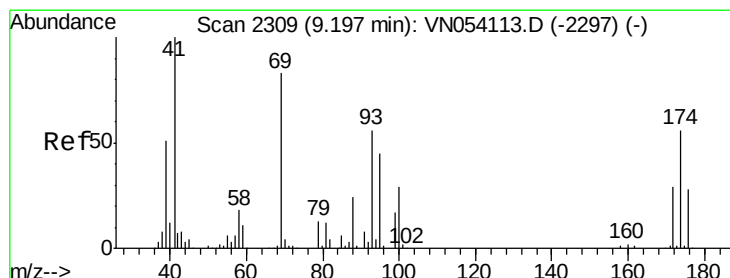
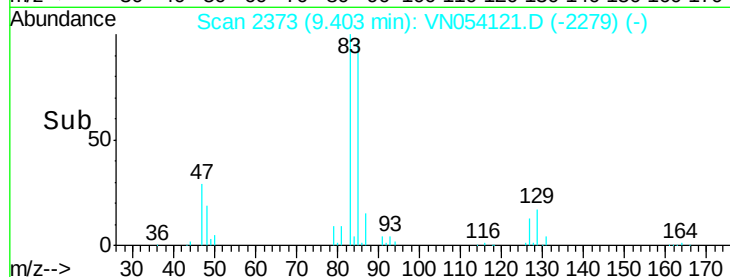
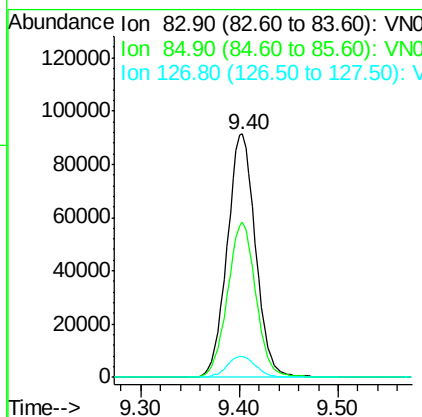
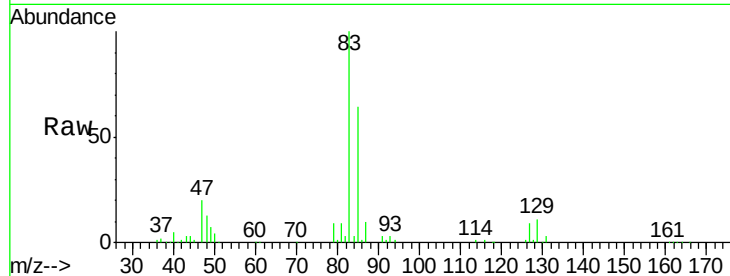
ClientSampleId :

VN0306WBS01

Tot Ion:	83	Resp:	183536
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.0	76.4
127	8.5	6.5	9.7

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3/7/2019 11:39:27 AM



#48

Methyl methacrylate

Concen: 19.251 ug/l

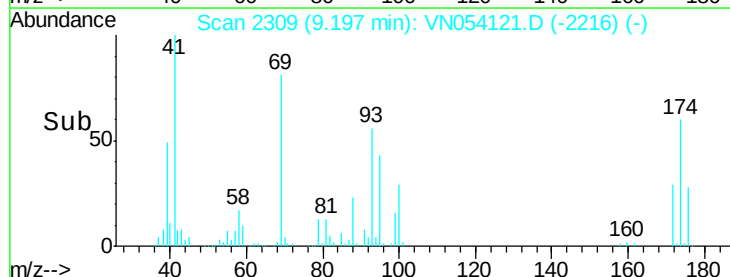
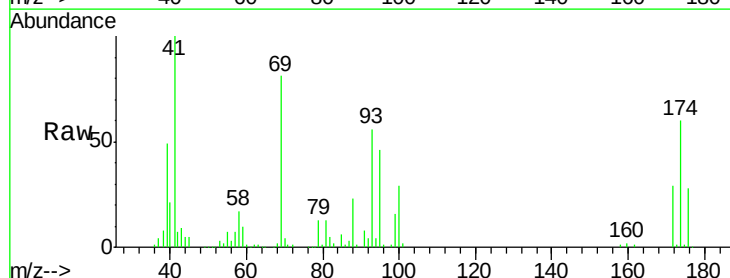
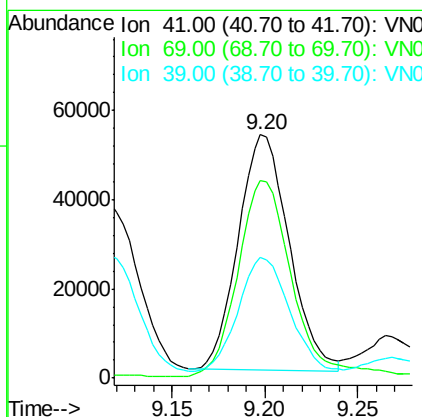
RT: 9.20 min Scan# 2309

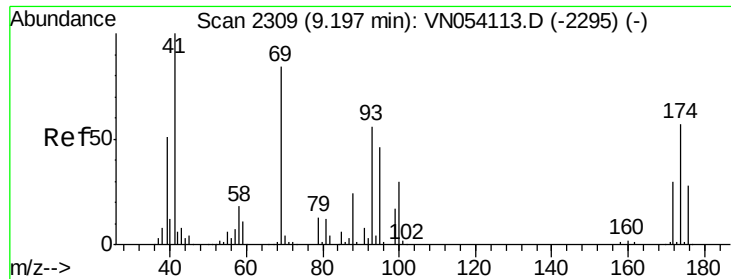
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	41	Resp:	100665
Ion Ratio	Lower	Upper	
41	100		
69	88.7	71.0	106.4
39	53.7	43.7	65.5





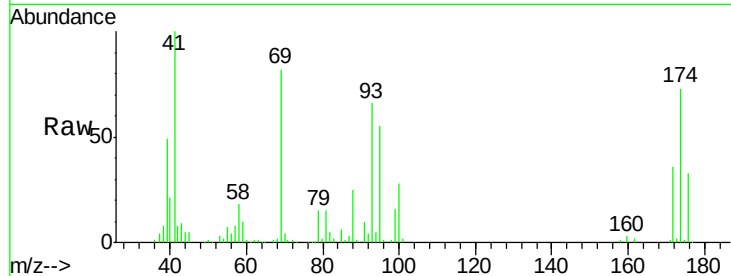
#49
 1,4-Dioxane
 Concen: 384.700 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

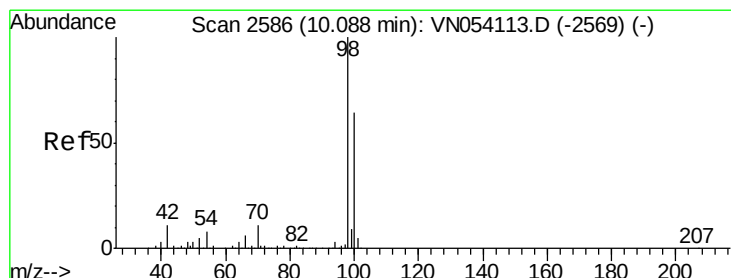
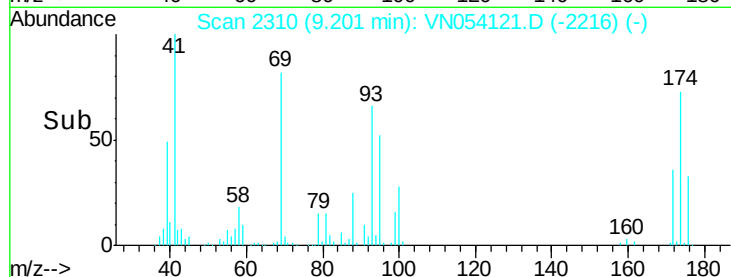
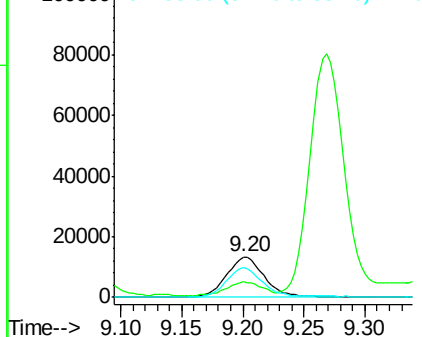
Tot Ion	88	Resp	28918
Ion	Ratio	Lower	Upper
88	100		
43	32.6	25.5	38.3
58	70.1	58.3	87.5

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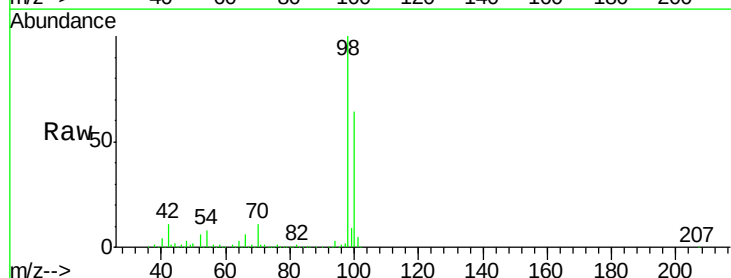


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

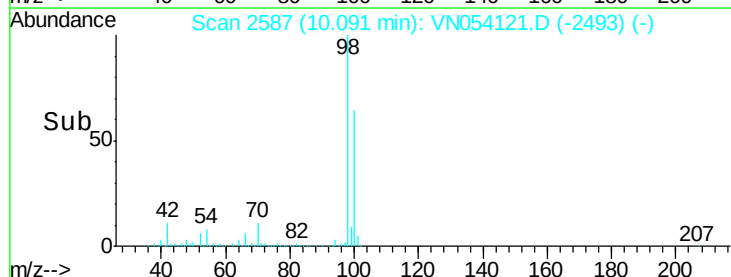
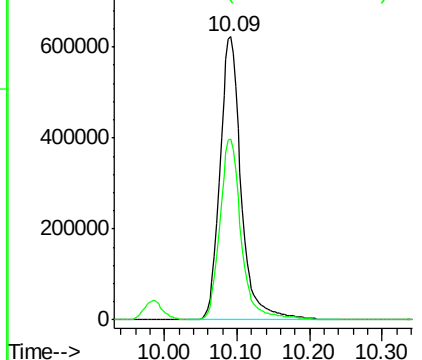


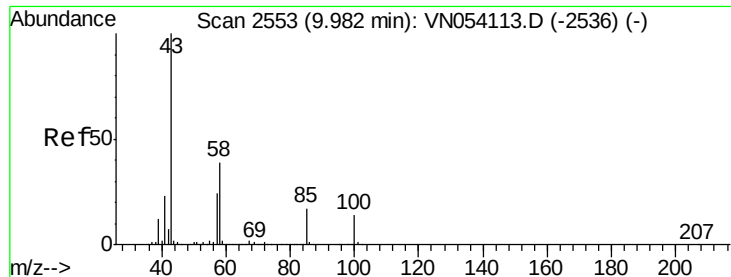
#50
 Toluene-d8
 Concen: 50.467 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	98	Resp	1260170
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 97.294 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

VN0306WBS01

Tot Ion: 43 Resp: 590262

Ion Ratio Lower Upper

43 100

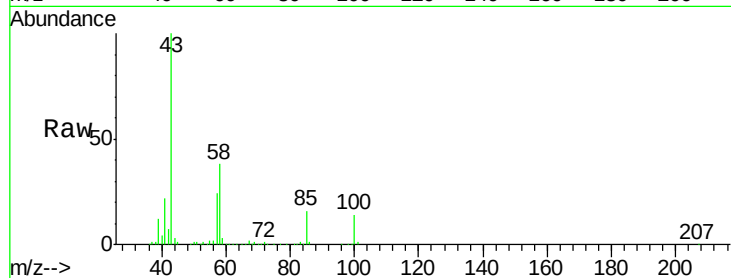
58 38.0 30.8 46.2

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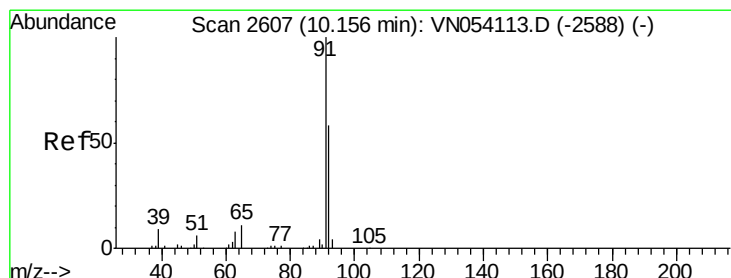
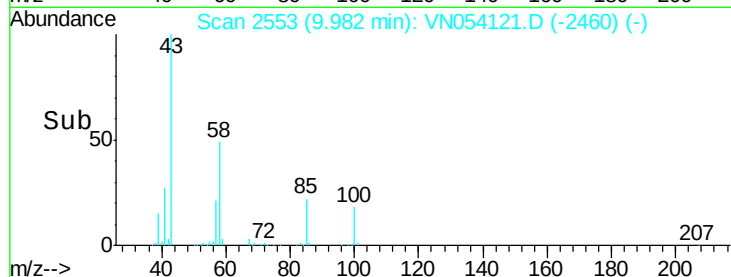
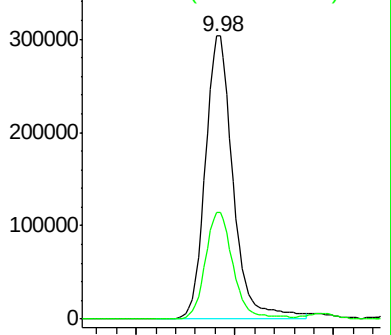
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.178 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054121.D

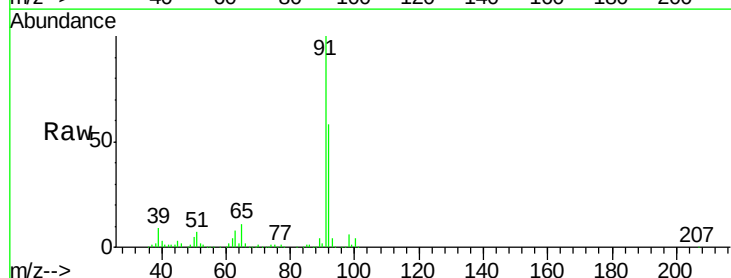
Acq: 6 Mar 2019 17:20

Tgt Ion: 92 Resp: 336099

Ion Ratio Lower Upper

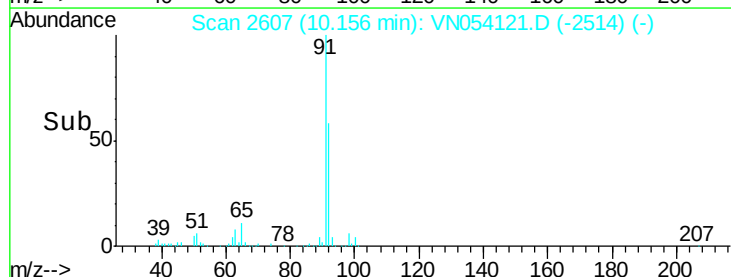
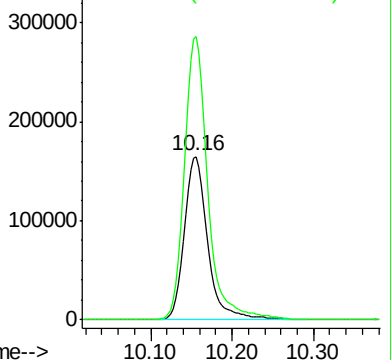
92 100

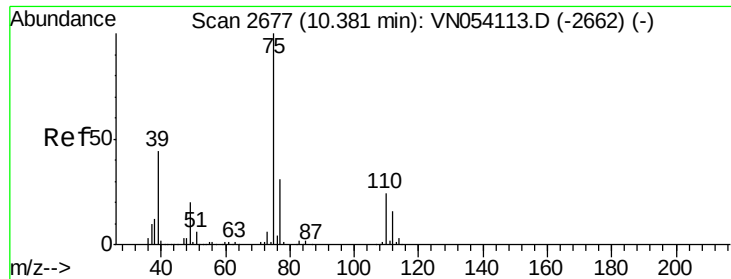
91 173.1 139.0 208.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





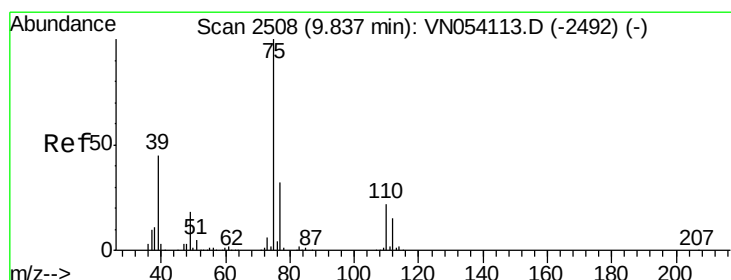
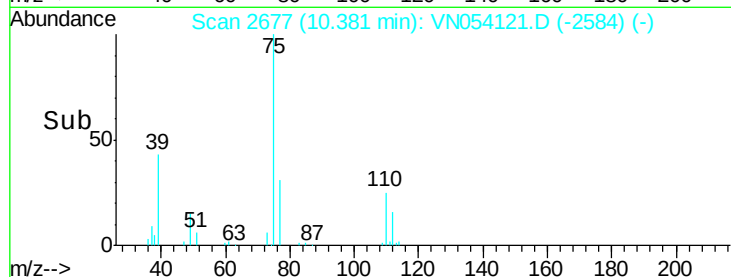
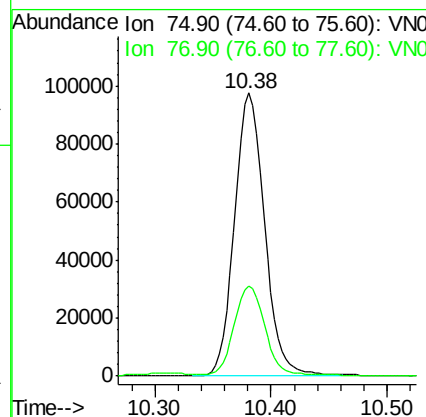
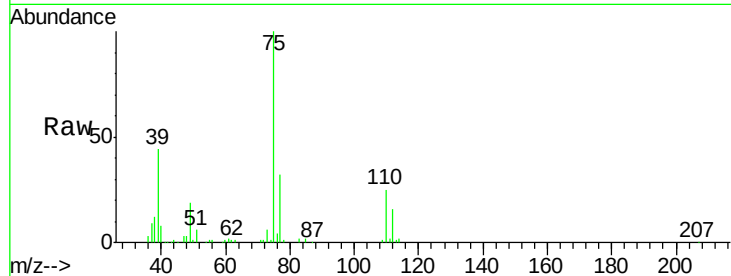
#53
t-1,3-Dichloropropene
Concen: 19.261 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion: 75 Resp: 176045
Ion Ratio Lower Upper
75 100
77 31.4 24.9 37.3

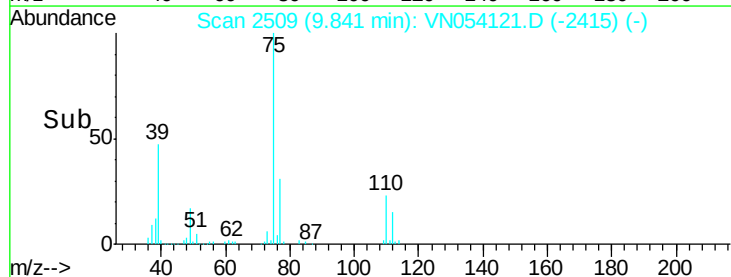
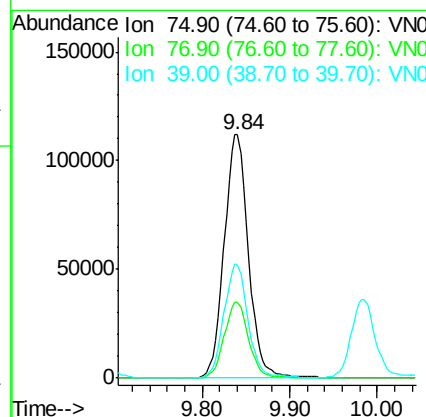
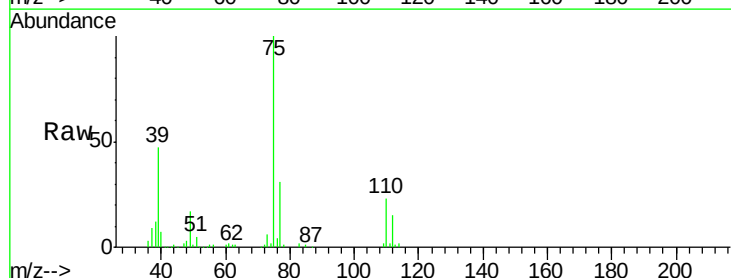
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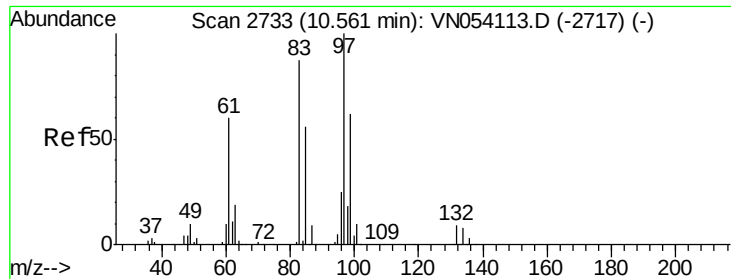
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#54
cis-1,3-Dichloropropene
Concen: 19.916 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 75 Resp: 215140
Ion Ratio Lower Upper
75 100
77 31.1 25.4 38.0
39 46.5 36.2 54.2





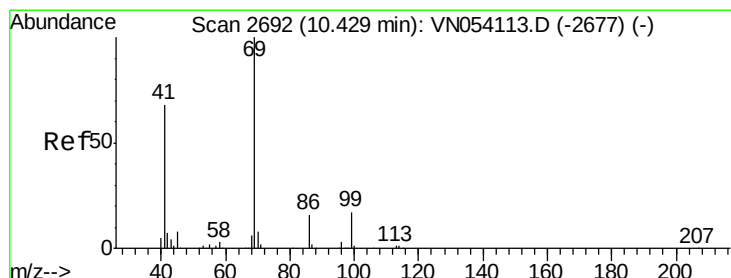
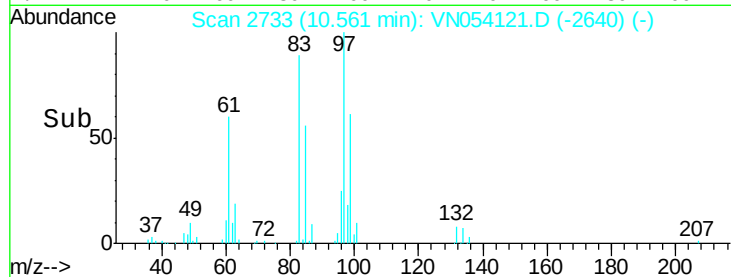
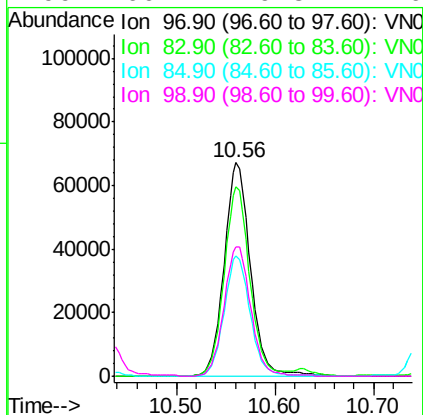
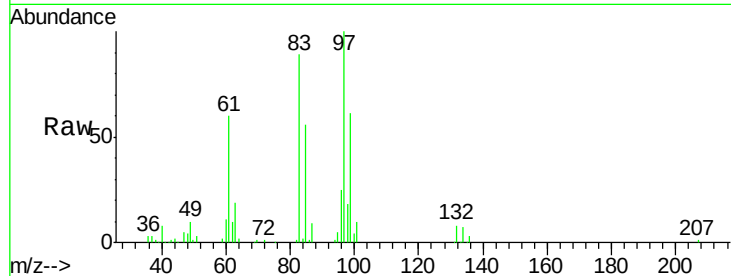
#55
 1,1,2-Trichloroethane
 Concen: 20.045 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		125731		
83	88.9	69.8	104.6		
85	56.3	45.0	67.4		
99	60.7	49.8	74.6		

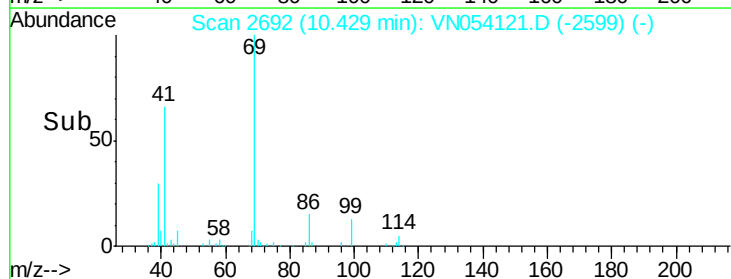
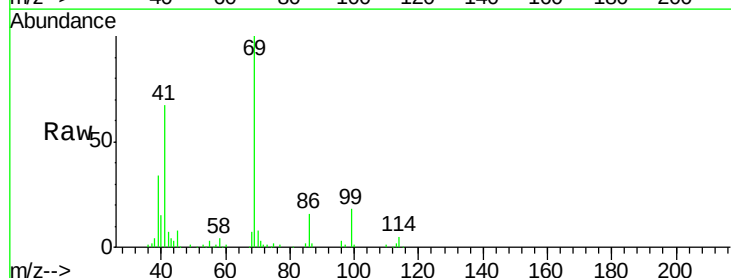
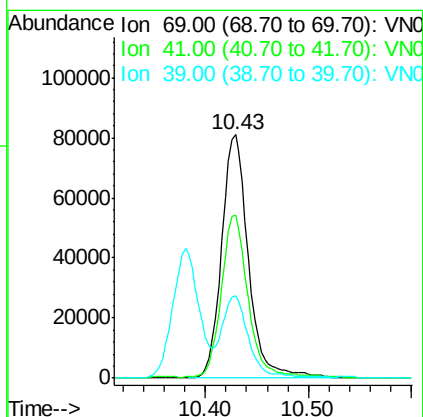
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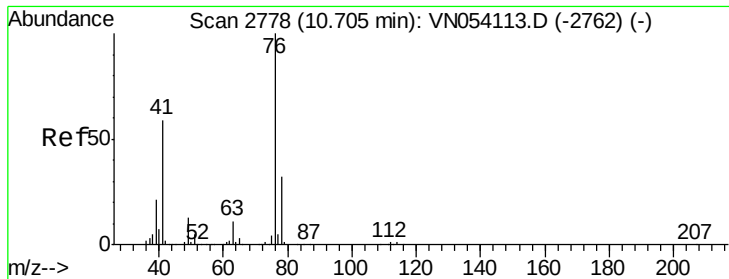
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#56
 Ethyl methacrylate
 Concen: 19.931 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		146758		
41	65.3	53.4	80.2		
39	33.5	25.6	38.4		





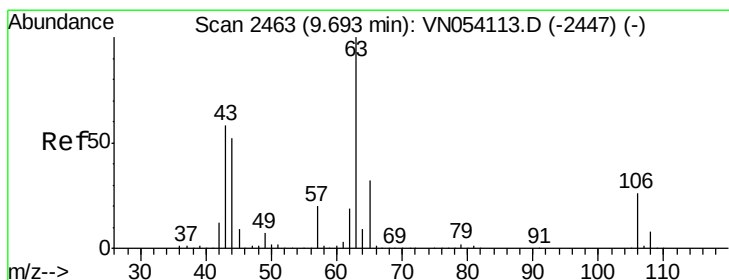
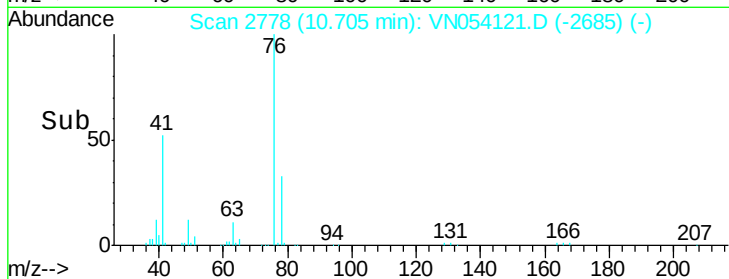
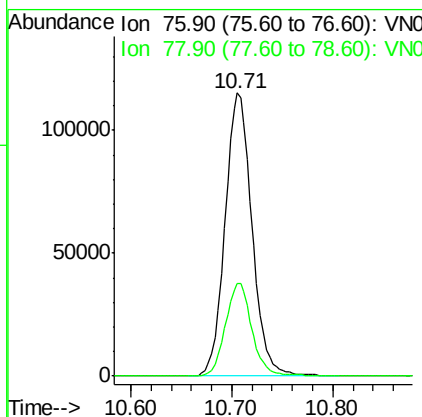
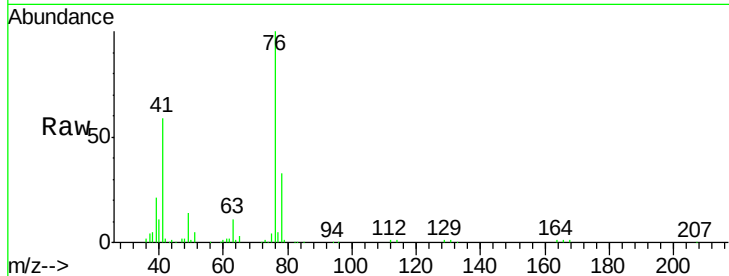
#57
 1,3-Dichloropropane
 Concen: 20.055 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion: 76 Resp: 214627
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.9 38.9

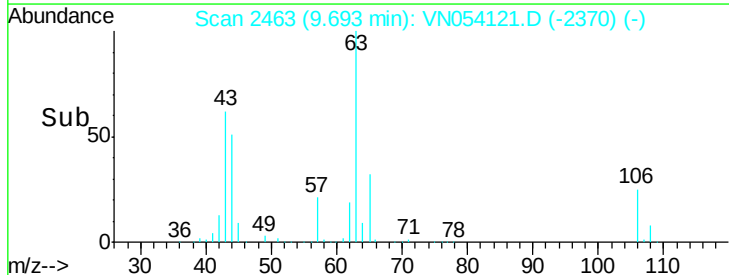
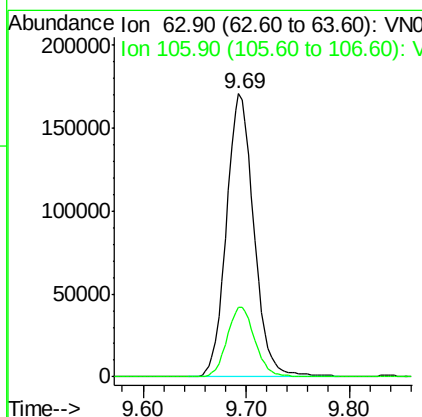
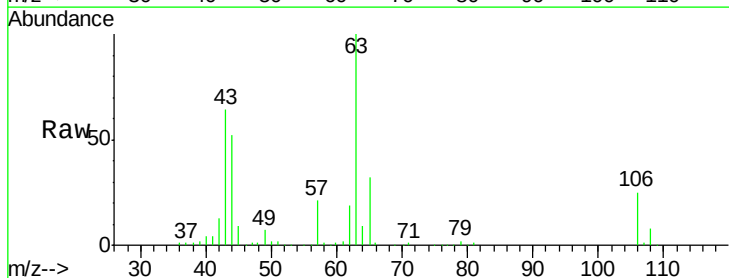
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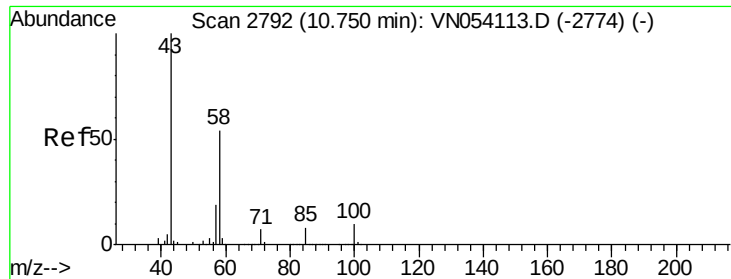
MMDadoda
 3/7/2019 11:39:27 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.275 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion: 63 Resp: 317727
 Ion Ratio Lower Upper
 63 100
 106 24.7 20.2 30.2





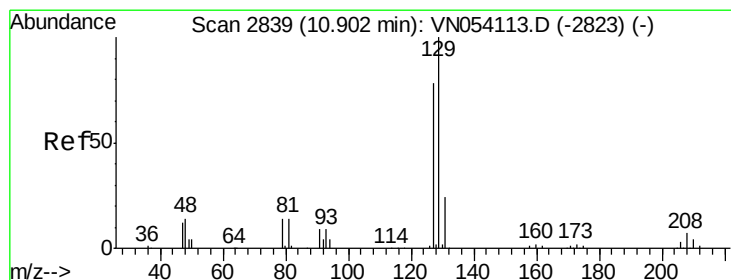
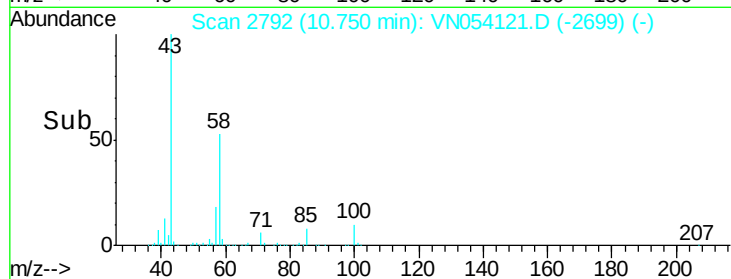
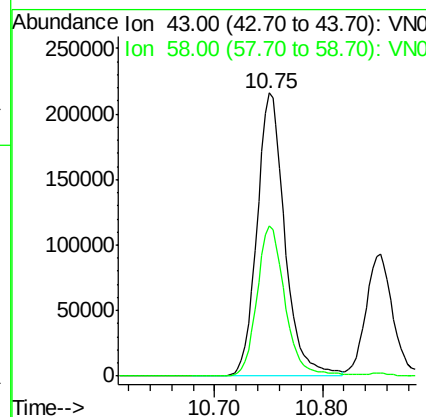
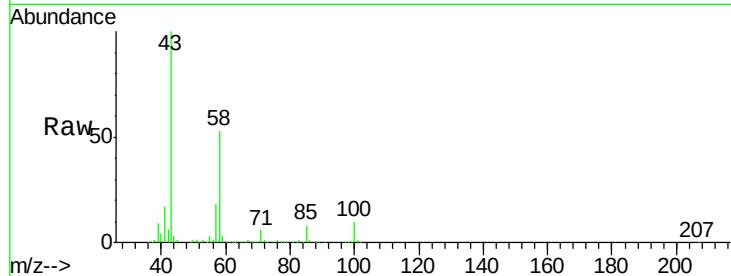
#59
2-Hexanone
Concen: 96.175 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion: 43 Resp: 384920
Ion Ratio Lower Upper
43 100
58 53.6 27.0 81.0

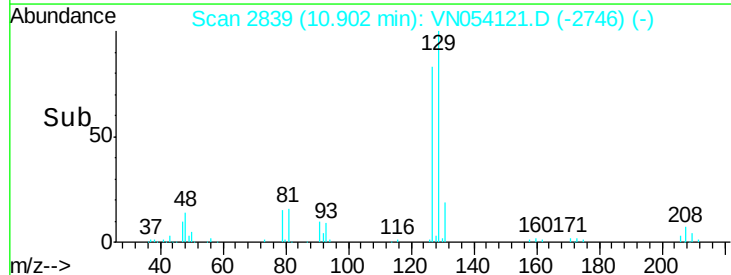
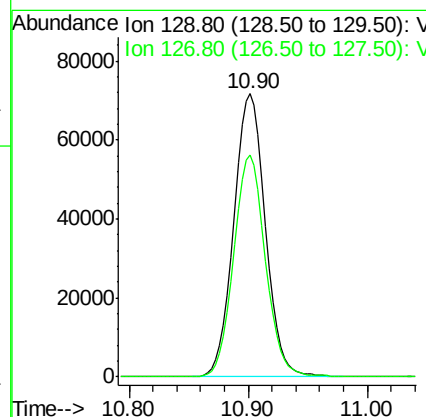
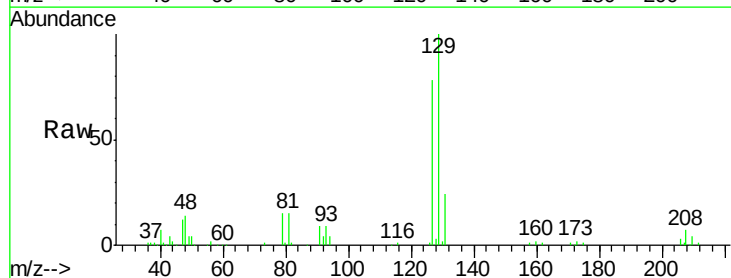
Manual Integrations
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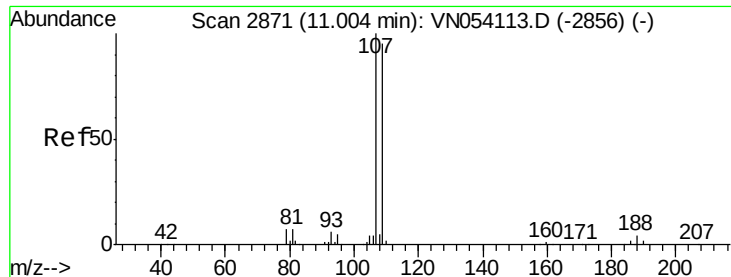
MMDadoda
3/7/2019 11:39:27 AM



#60
Dibromochloromethane
Concen: 19.658 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 129 Resp: 131840
Ion Ratio Lower Upper
129 100
127 78.7 38.8 116.4





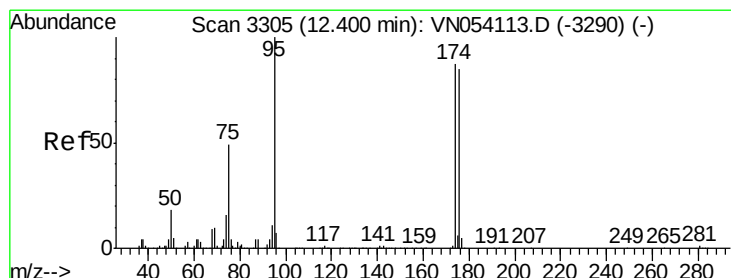
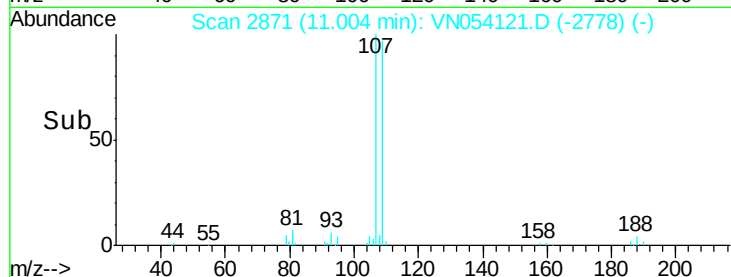
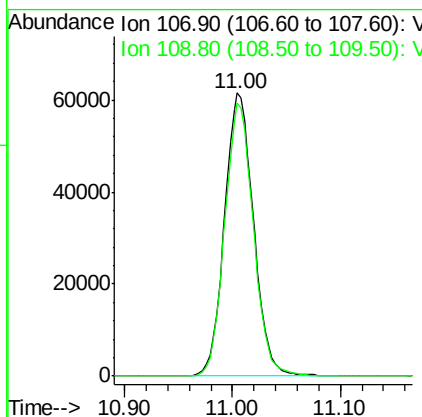
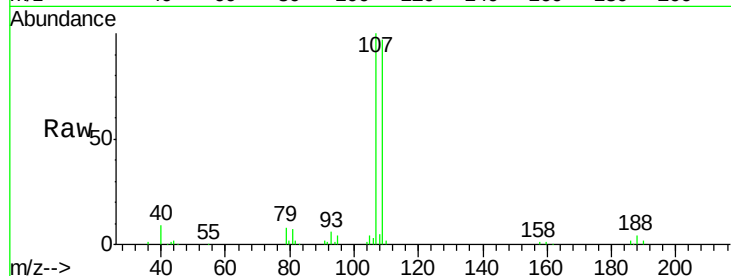
#61
 1,2-Dibromoethane
 Concen: 19.327 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBS01

Tot Ion: 107 Resp: 115349
 Ion Ratio Lower Upper
 107 100
 109 95.4 74.9 112.3

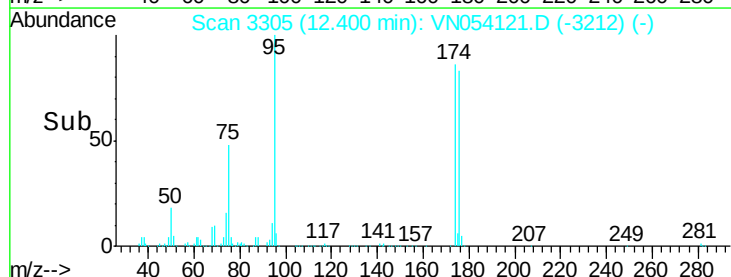
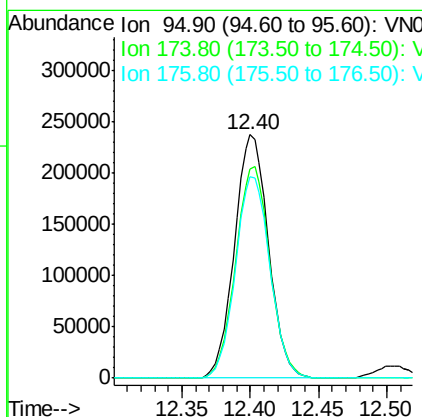
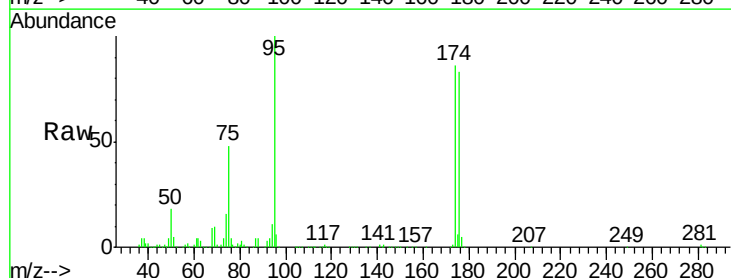
Manual Integrations
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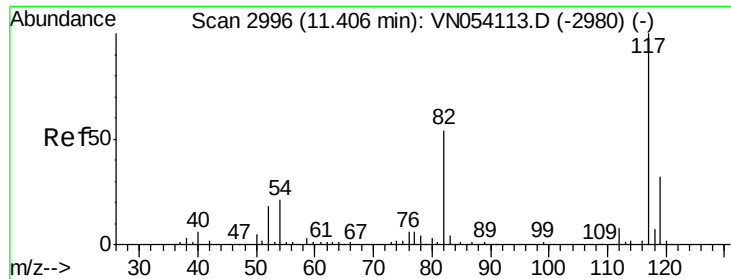
MMDadoda
 3/7/2019 11:39:27 AM



#62
 4-Bromofluorobenzene
 Concen: 50.430 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion: 95 Resp: 409977
 Ion Ratio Lower Upper
 95 100
 174 87.5 0.0 173.2
 176 84.1 0.0 168.8





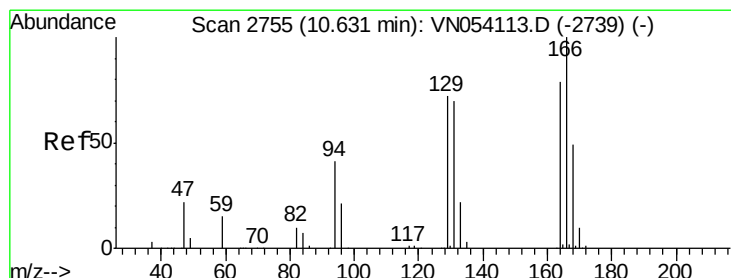
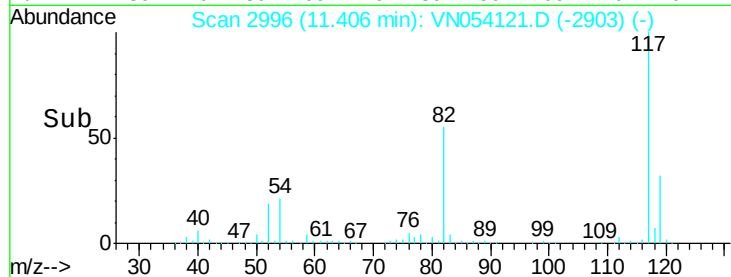
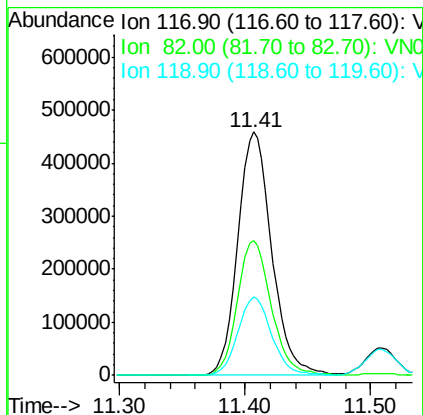
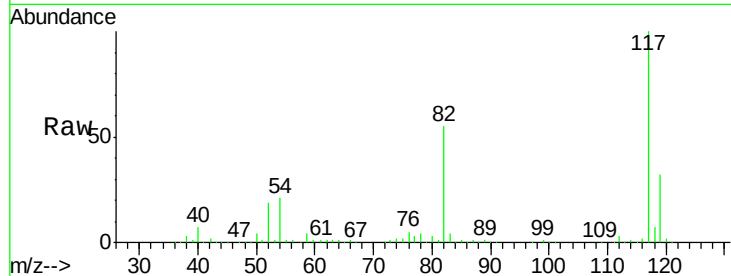
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	43.4	65.2
119	32.1	26.0	39.0

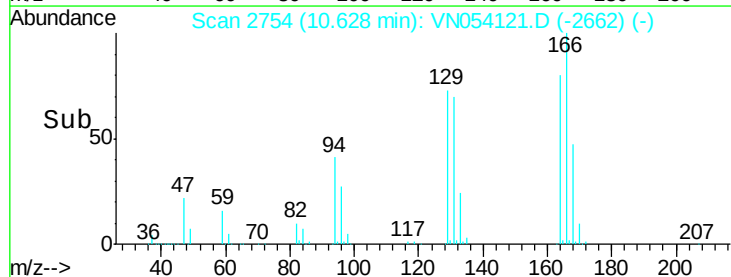
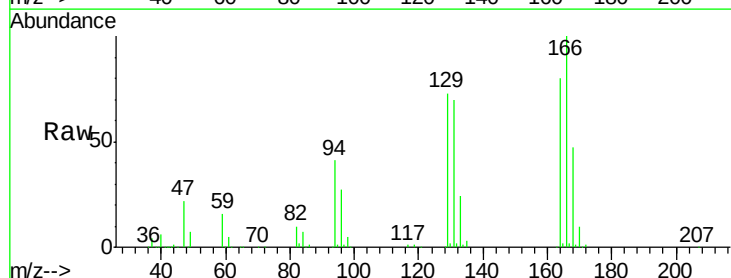
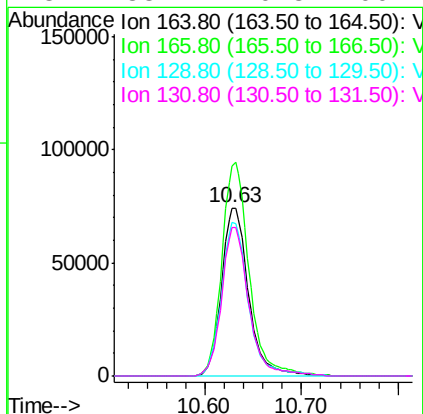
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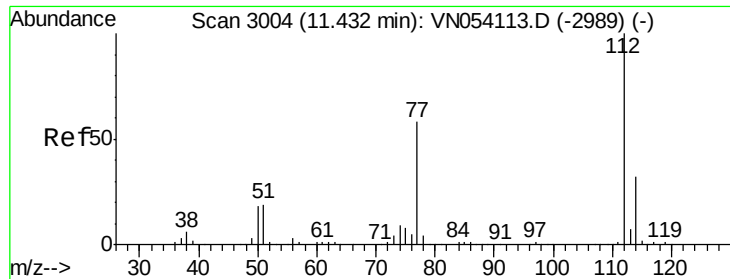
MMDadoda
3/7/2019 11:39:27 AM



#64
Tetrachloroethene
Concen: 20.347 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.3	151.9
129	91.4	73.2	109.8
131	88.2	70.8	106.2





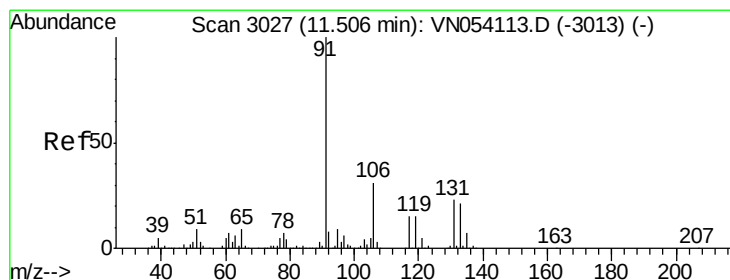
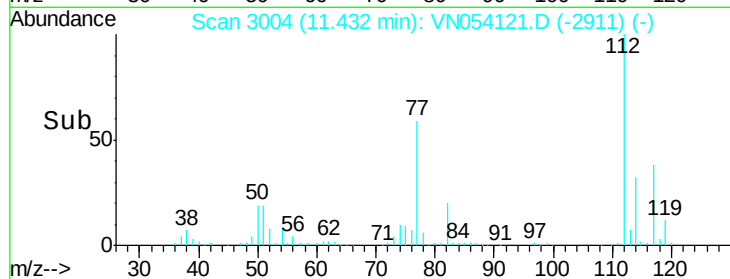
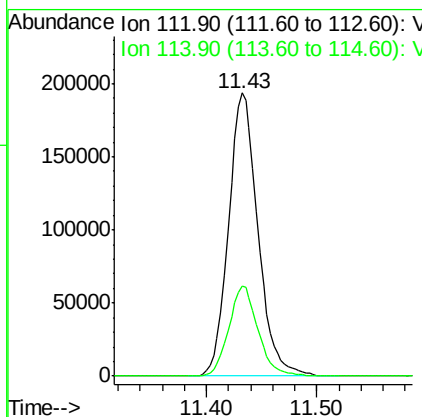
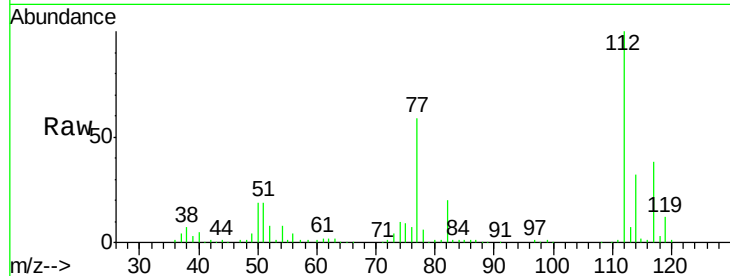
#65
Chlorobenzene
Concen: 19.861 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion:112 Resp: 357275
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.0

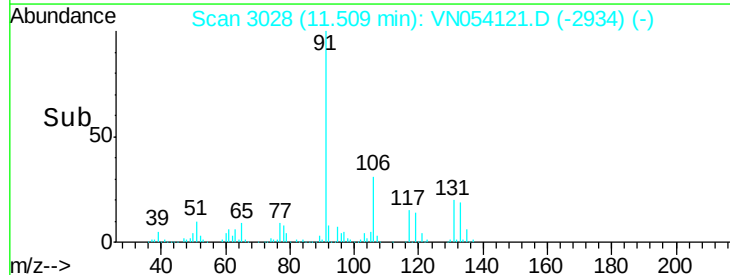
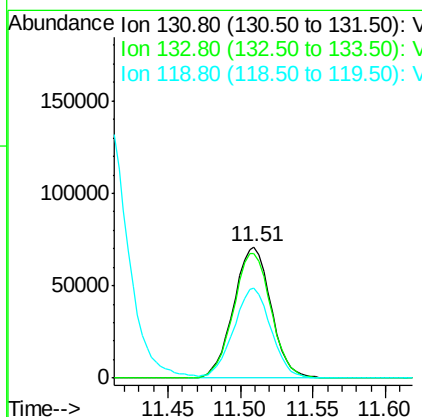
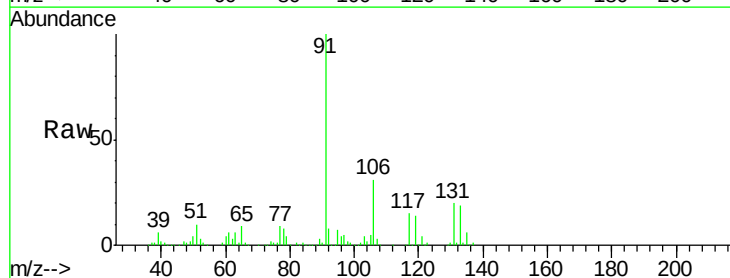
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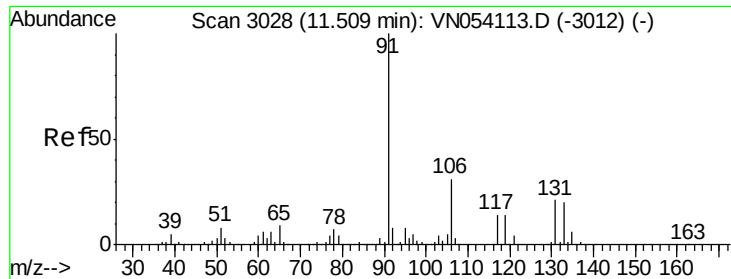
MMDadoda
3/7/2019 11:39:27 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.754 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion:131 Resp: 127204
Ion Ratio Lower Upper
131 100
133 95.7 47.6 142.9
119 68.7 33.8 101.3





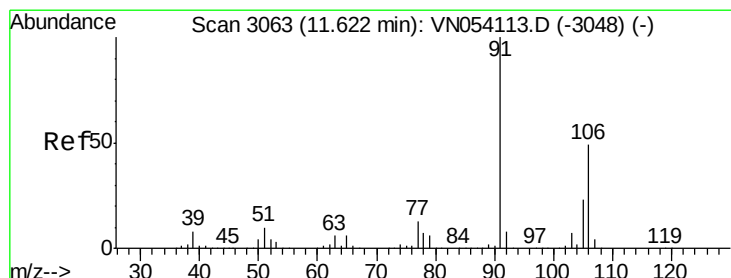
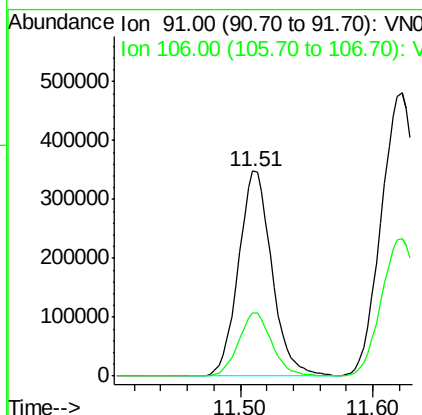
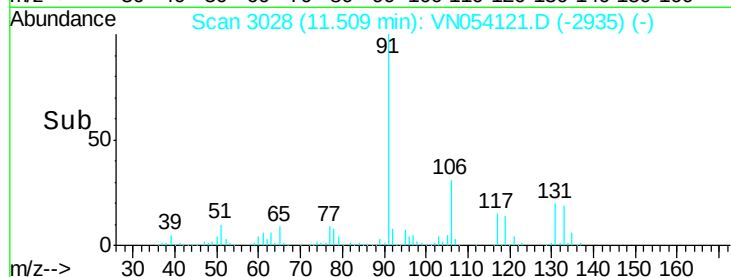
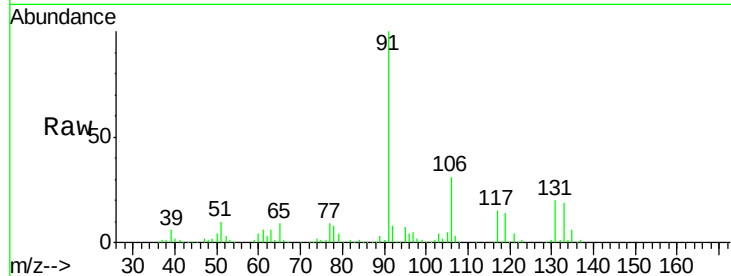
#67
Ethyl Benzene
Concen: 20.215 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion: 91 Resp: 608513
Ion Ratio Lower Upper
91 100
106 30.6 24.6 36.8

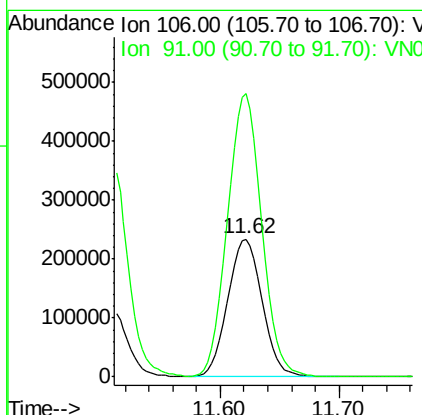
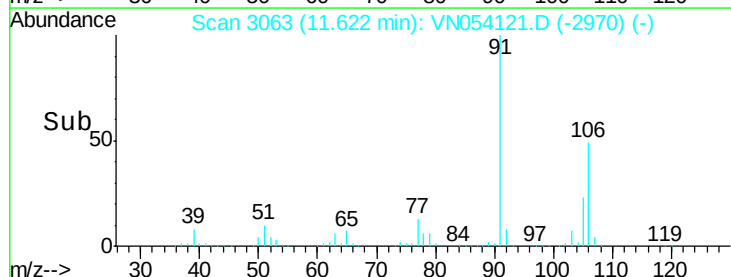
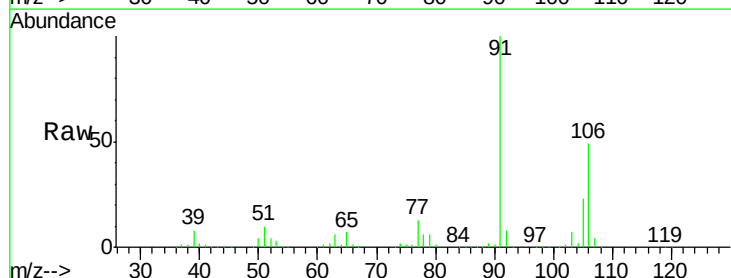
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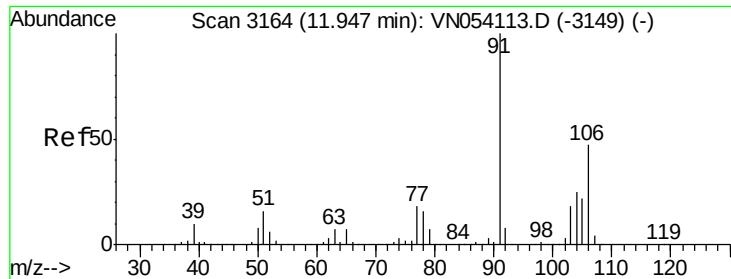
MMDadoda
3/7/2019 11:39:27 AM



#68
m/p-Xylenes
Concen: 41.334 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion: 106 Resp: 469547
Ion Ratio Lower Upper
106 100
91 203.7 163.2 244.8





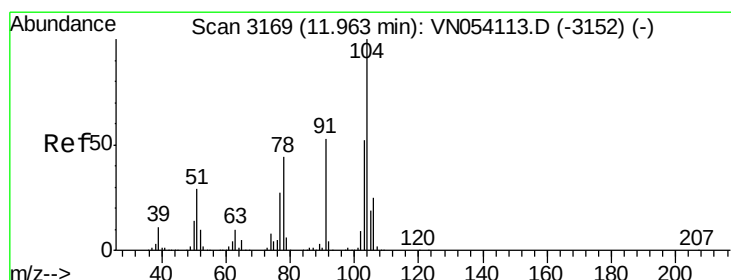
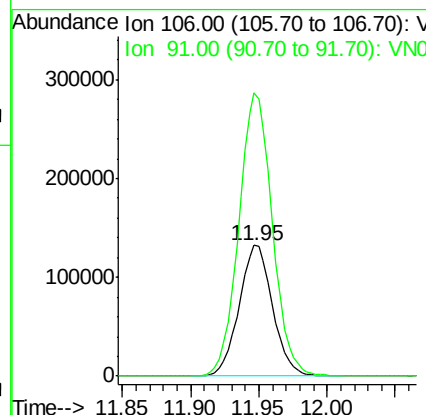
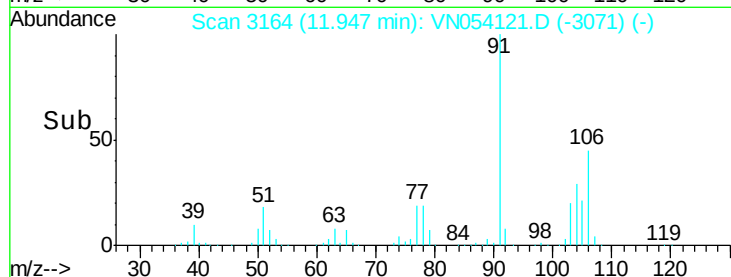
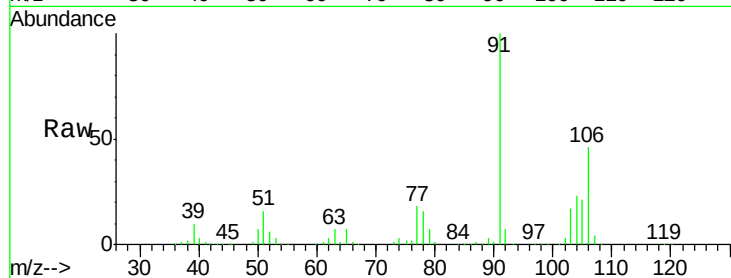
#69
o-Xylene
Concen: 20.628 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
VN0306WBS01

Tot Ion:106 Resp: 225492
Ion Ratio Lower Upper
106 100
91 216.1 107.1 321.3

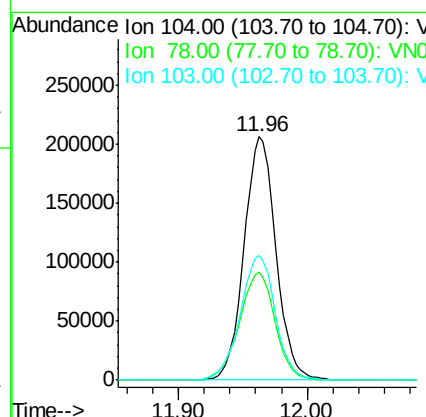
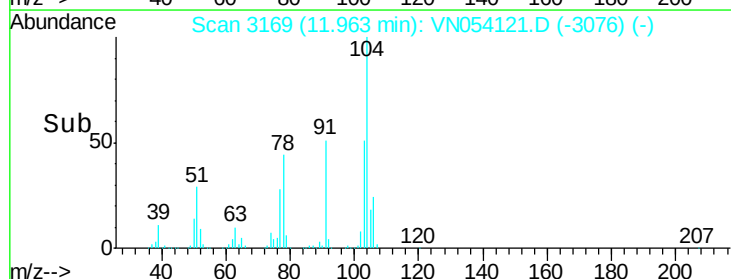
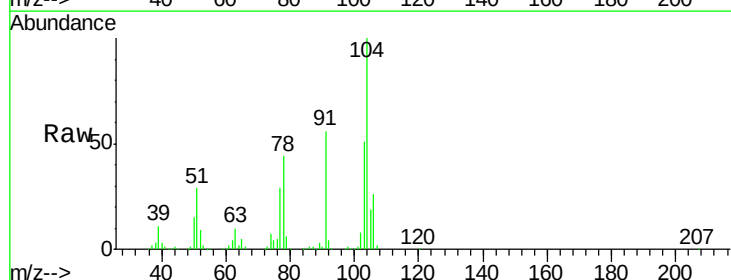
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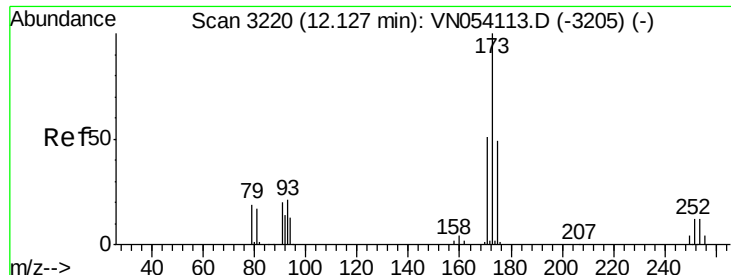
MMDadoda
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#70
Styrene
Concen: 20.491 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion:104 Resp: 355561
Ion Ratio Lower Upper
104 100
78 49.4 39.4 59.0
103 56.0 44.7 67.1





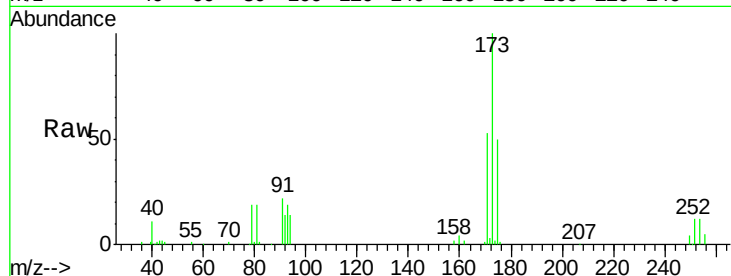
#71
Bromoform
Concen: 19.509 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBS01

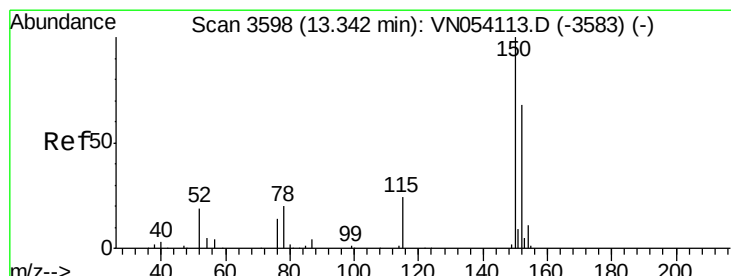
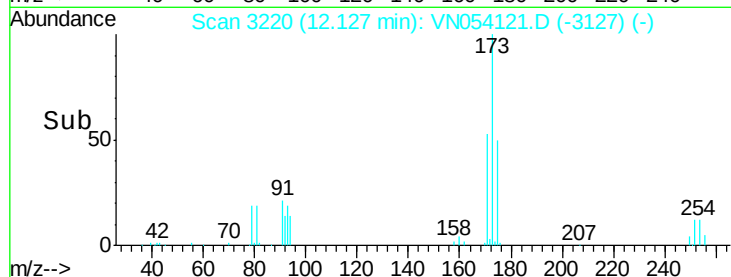
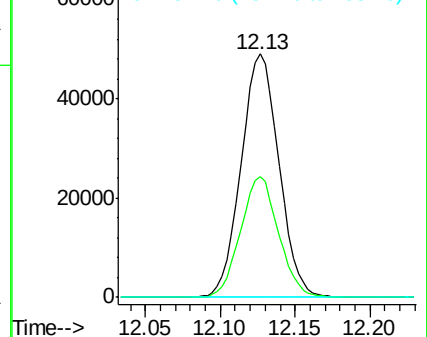
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.1	72.2
254	0.0	0.0	0.0

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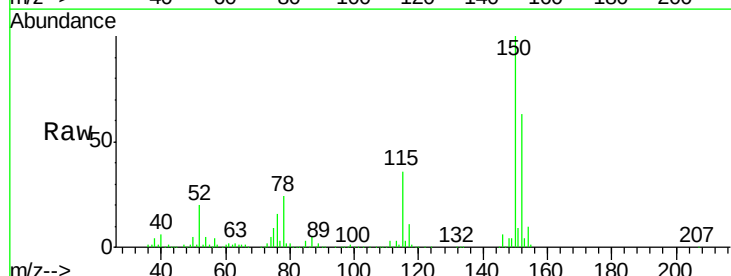


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

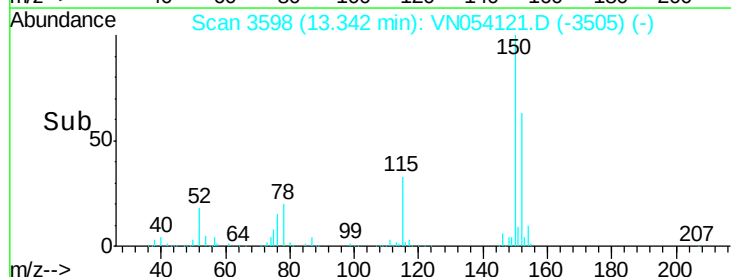
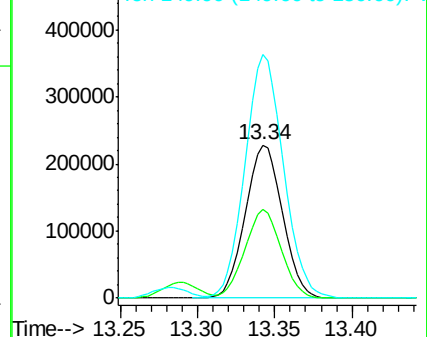


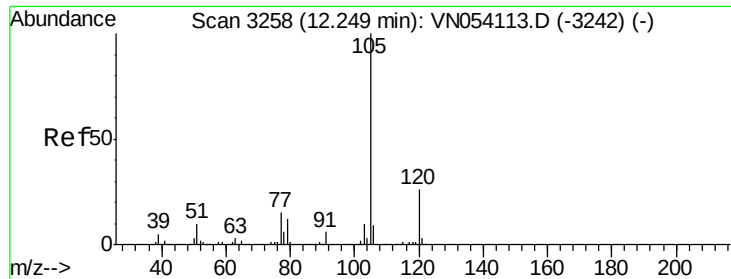
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.5	85.6
150	164.1	0.0	343.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.804 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBS01

Tot Ion:105 Resp: 600616

Ion Ratio Lower Upper

105 100

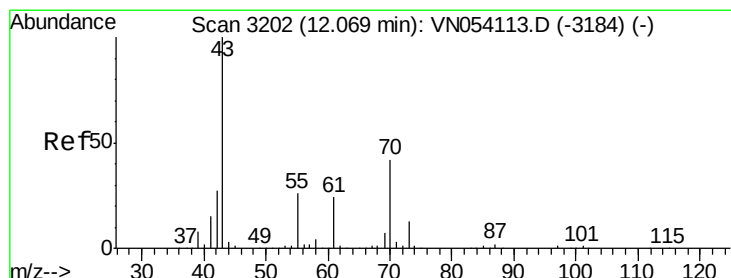
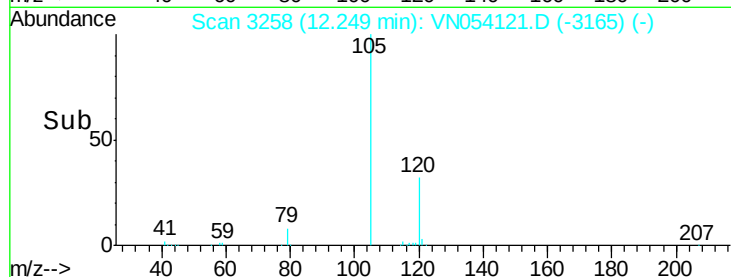
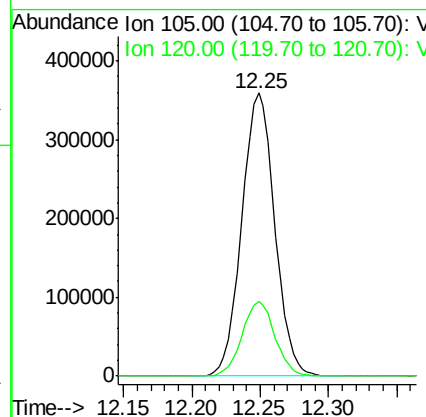
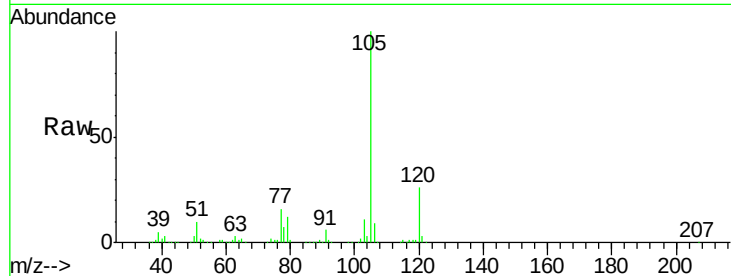
120 26.4 13.3 39.8

Manual Integrations

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3/7/2019 11:39:27 AM



#74

N-ethyl acetate

Concen: 19.432 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion: 43 Resp: 156088

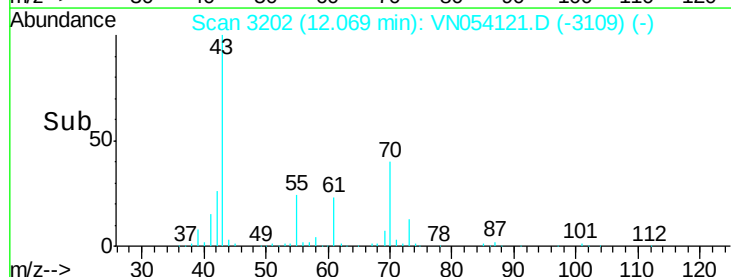
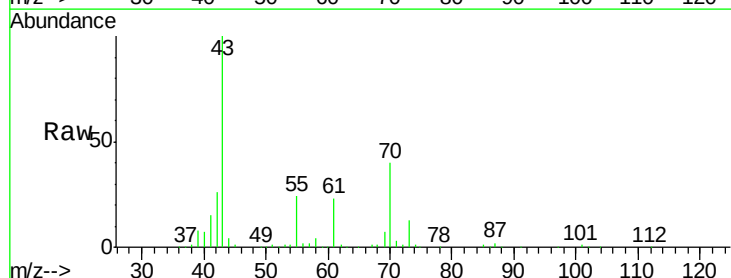
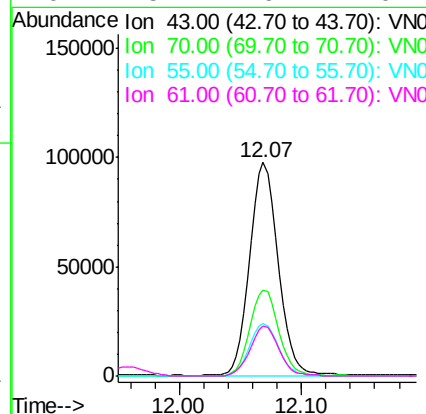
Ion Ratio Lower Upper

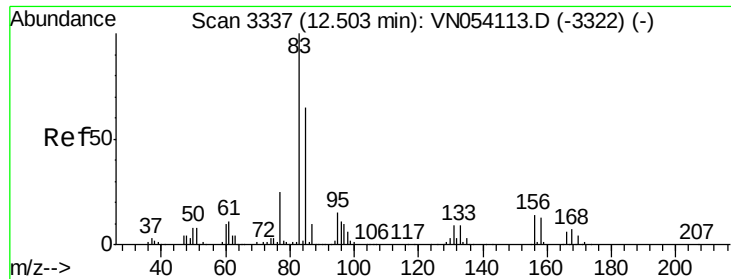
43 100

70 41.1 33.6 50.4

55 25.3 20.6 31.0

61 23.7 19.4 29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 20.267 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

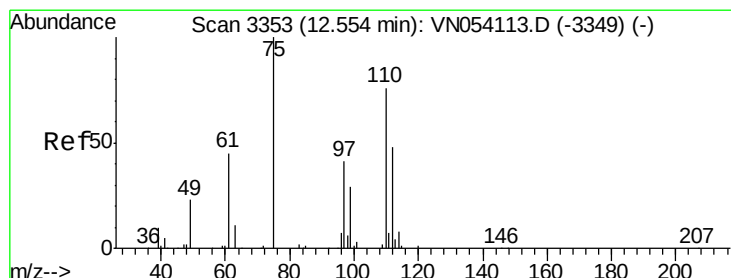
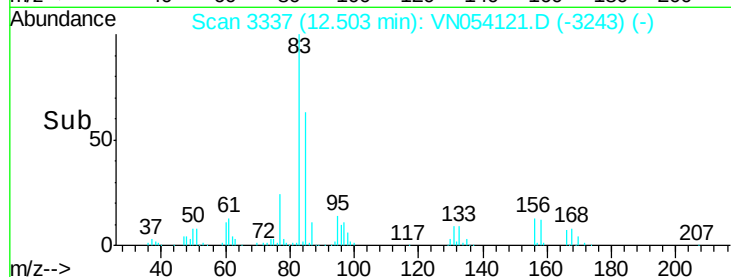
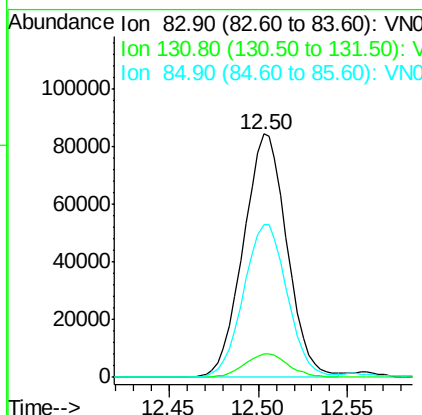
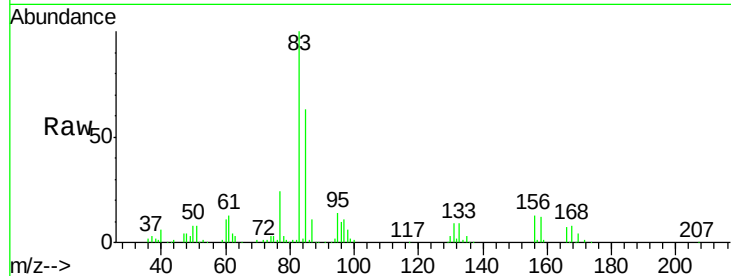
ClientSampled :

VN0306WBS01

Tot Ion:	83	Resp:	144545
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.0	14.9
85	62.8	32.4	97.0

Manual Integrations
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3/7/2019 11:39:27 AM



#76

1,2,3-Trichloropropane

Concen: 18.528 ug/l m

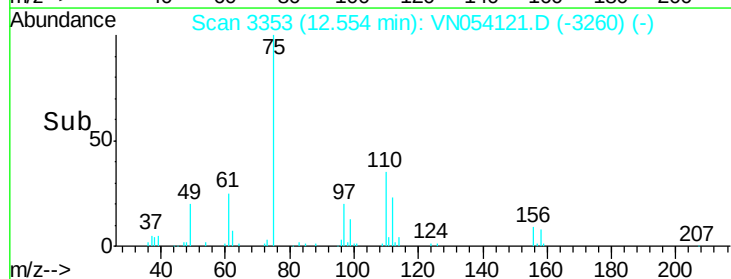
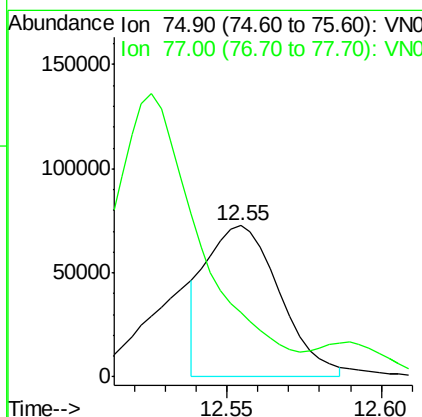
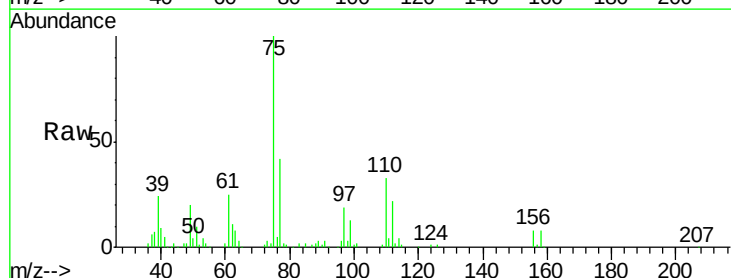
RT: 12.55 min Scan# 3353

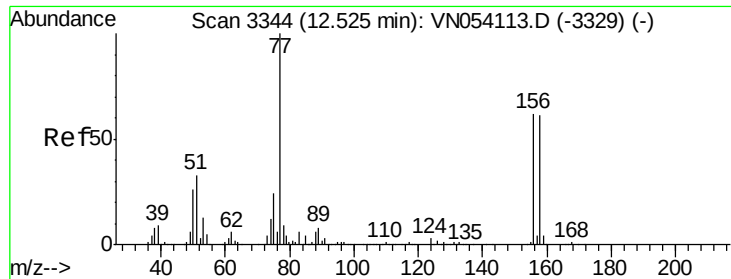
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	75	Resp:	120352
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.077 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

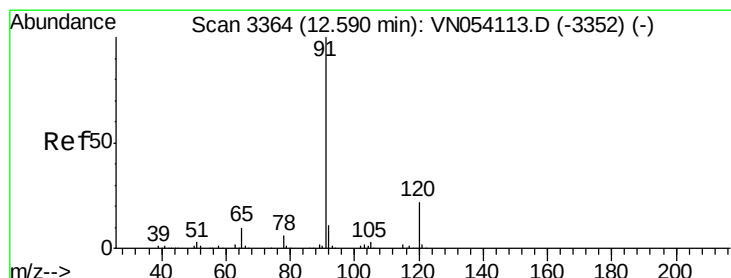
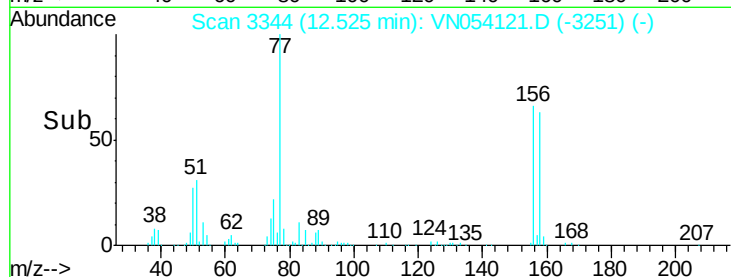
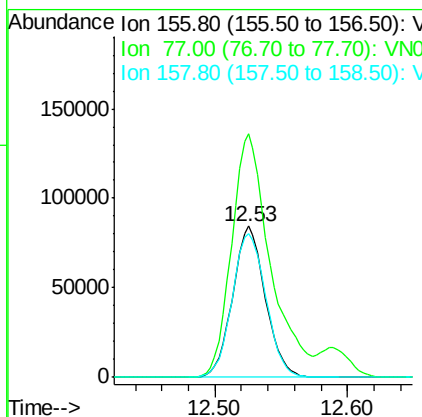
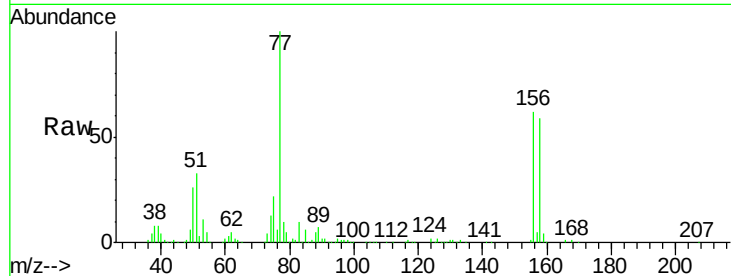
ClientSampled :

VN0306WBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	191.2	93.6	280.8
158	98.6	48.4	145.0

Manual Integrations
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3/7/2019 11:39:27 AM



#78

n-propylbenzene

Concen: 20.624 ug/l

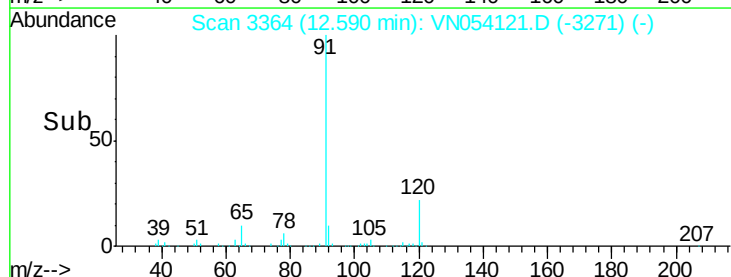
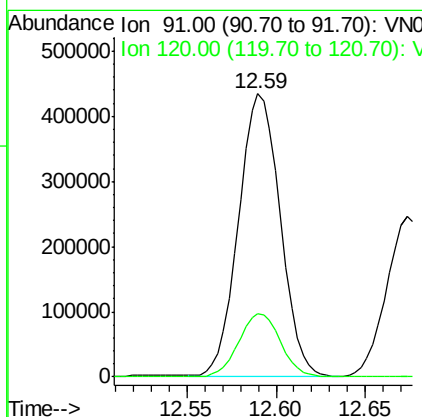
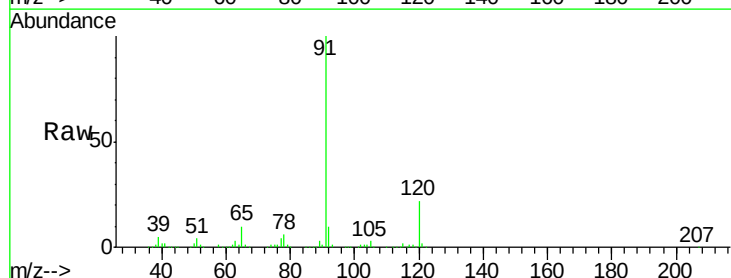
RT: 12.59 min Scan# 3364

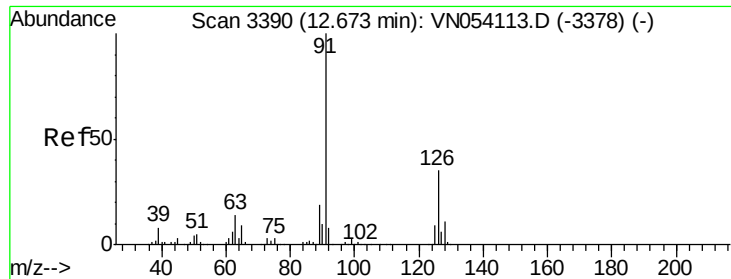
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.9





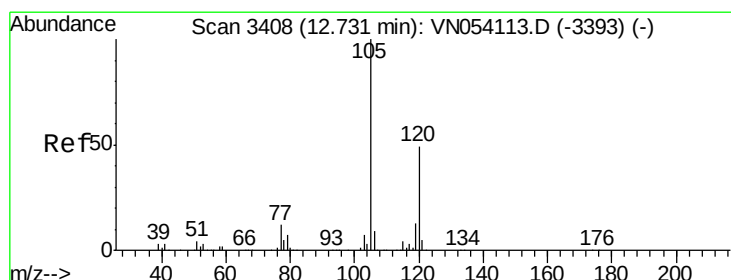
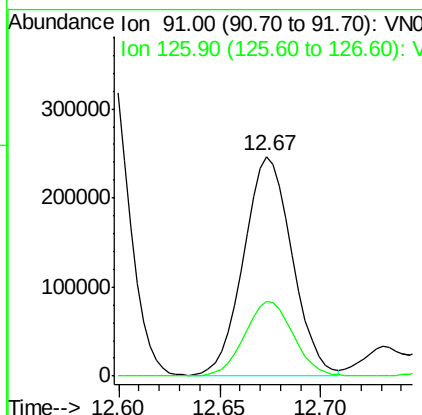
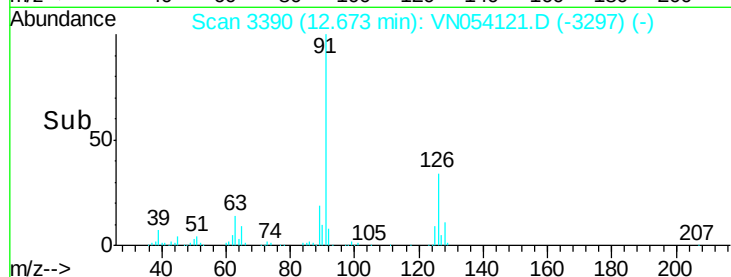
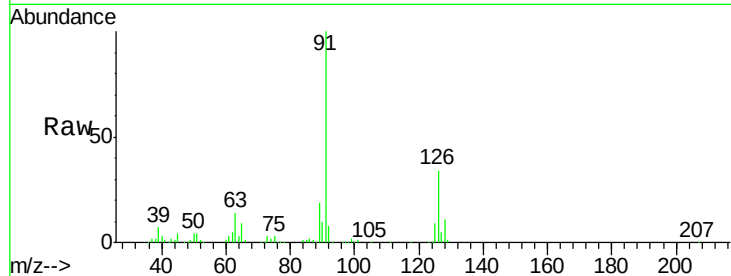
#79
 2-Chlorotoluene
 Concen: 19.852 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBS01

Tot Ion: 91 Resp: 411475
 Ion Ratio Lower Upper
 91 100
 126 34.7 17.4 52.2

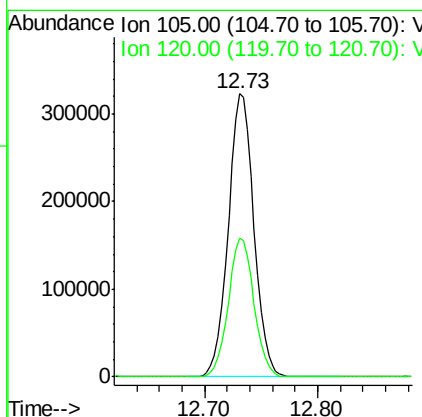
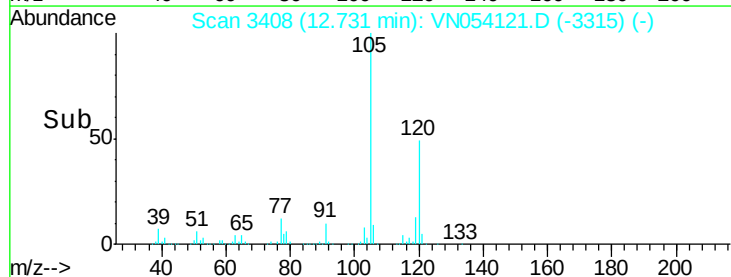
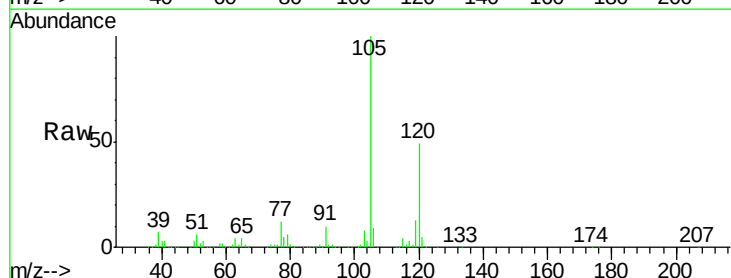
Manual Integrations
 APPROVED

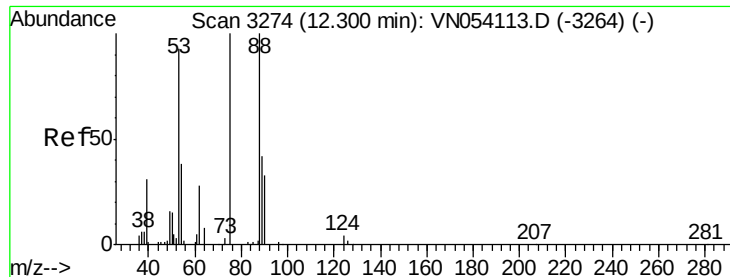
MMDadoda
 3/7/2019 11:39:27 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.567 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion: 105 Resp: 507059
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.982 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

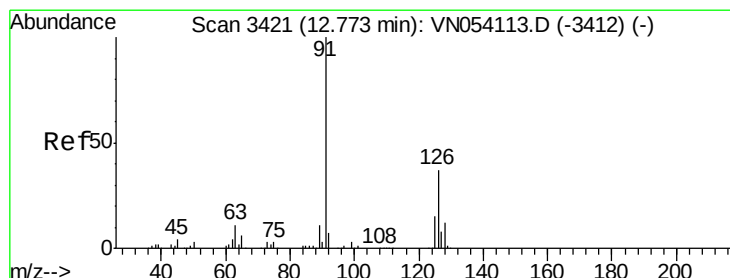
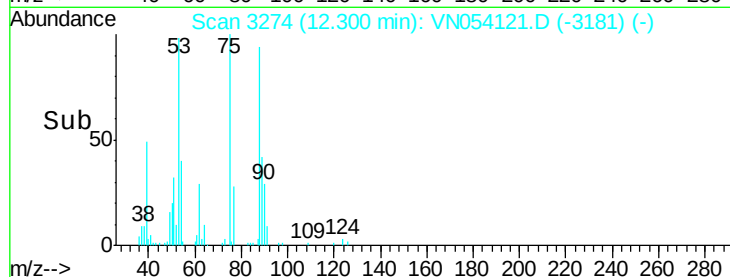
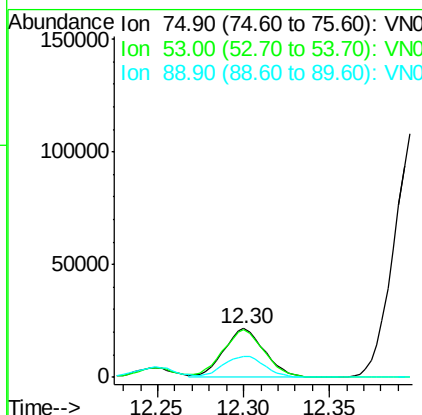
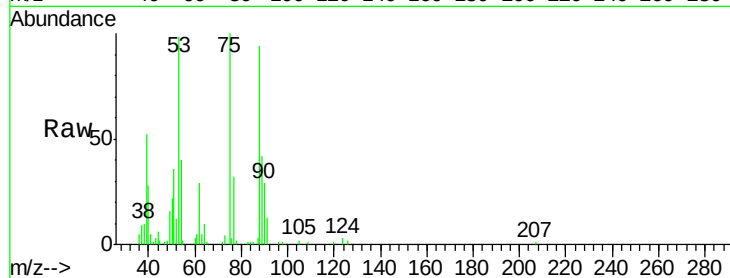
ClientSampleId :

VN0306WBS01

Tot Ion:	75	Resp:	35905
Ion	Ratio	Lower	Upper
75	100		
53	99.8	76.4	114.6
89	44.7	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:27 AM



#82

4-Chlorotoluene

Concen: 19.715 ug/l

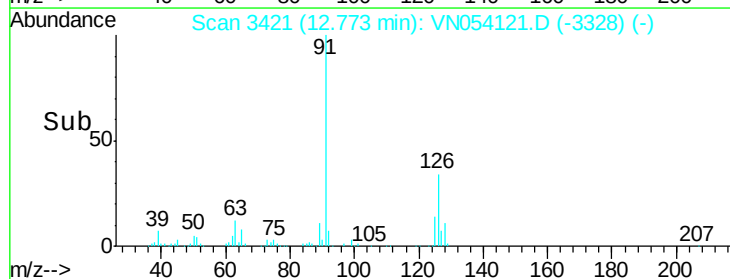
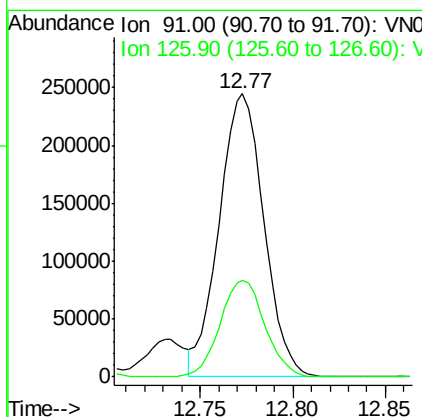
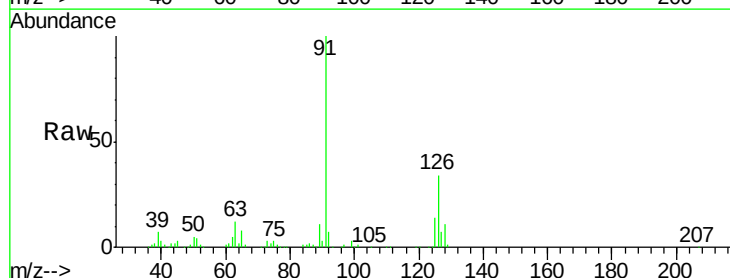
RT: 12.77 min Scan# 3421

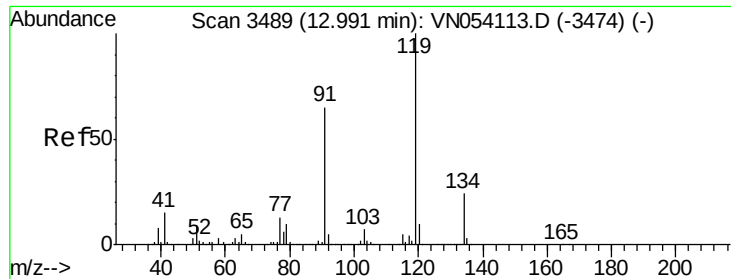
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	91	Resp:	407371
Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.1	51.3





#83

tert-Butylbenzene

Concen: 20.358 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

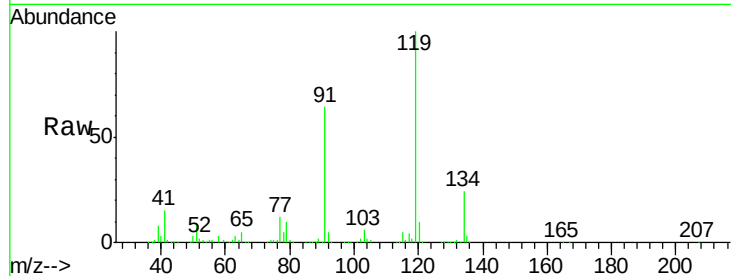
ClientSampled :

VN0306WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	444498		
91	62.7		31.8	95.3
134	25.6		12.8	38.3

Manual Integrations
APPROVED

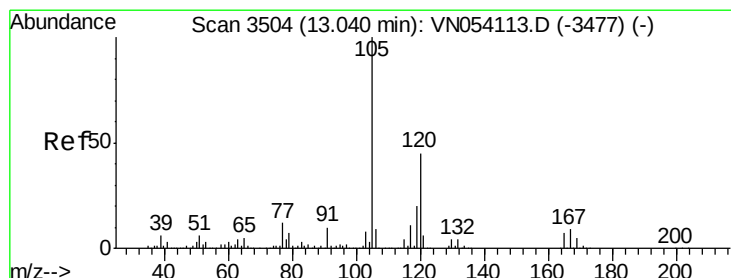
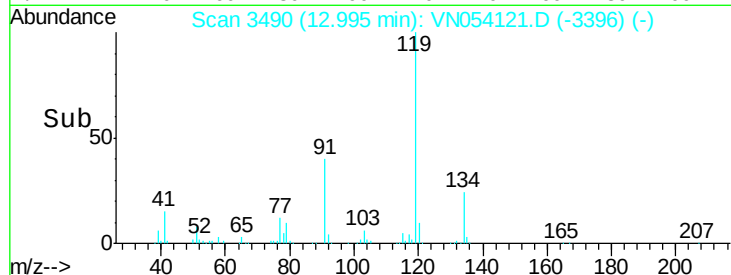
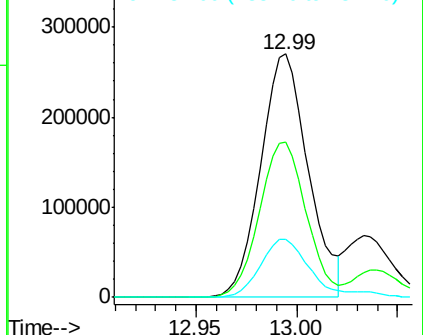
MMDadoda
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.546 ug/l

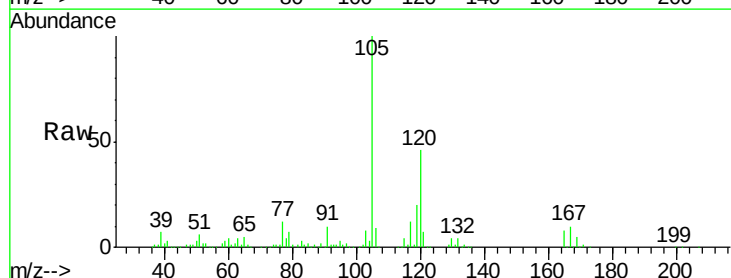
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054121.D

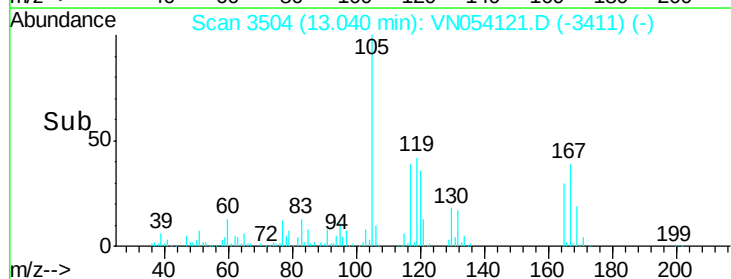
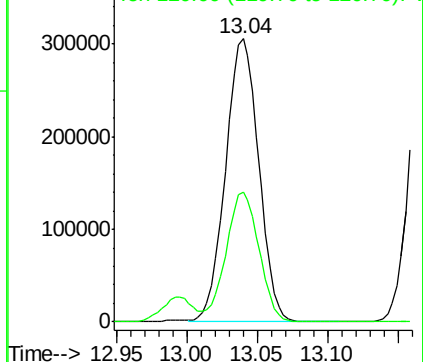
Acq: 6 Mar 2019 17:20

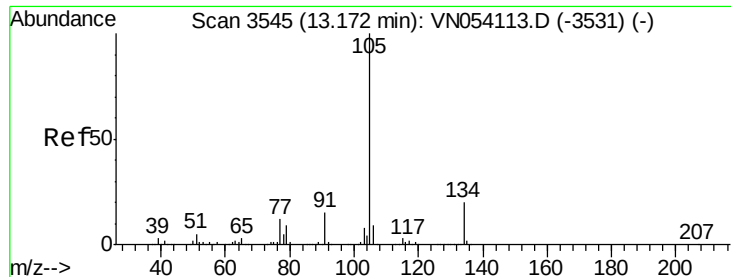
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	502760		
120	45.5		22.6	67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





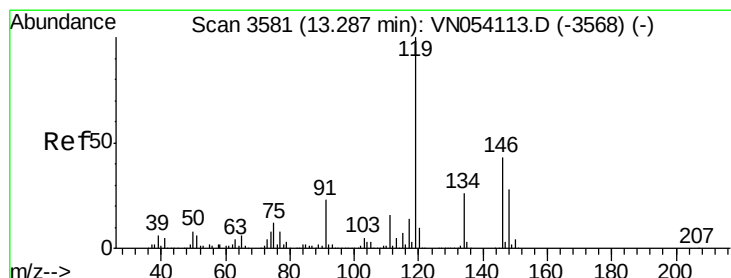
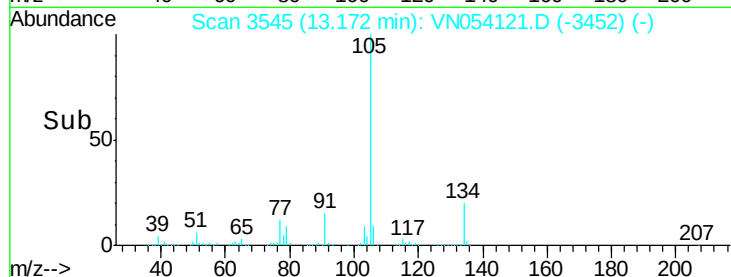
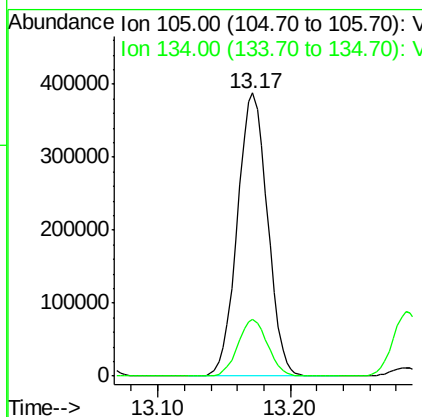
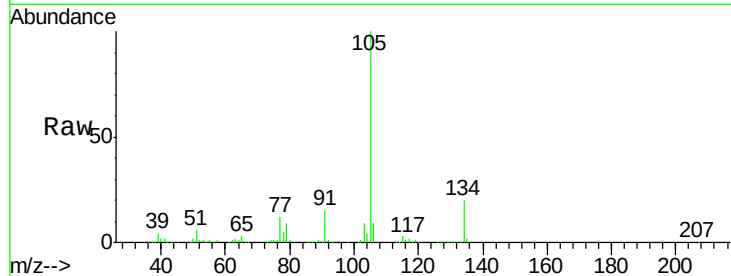
#85
 sec-Butylbenzene
 Concen: 20.632 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

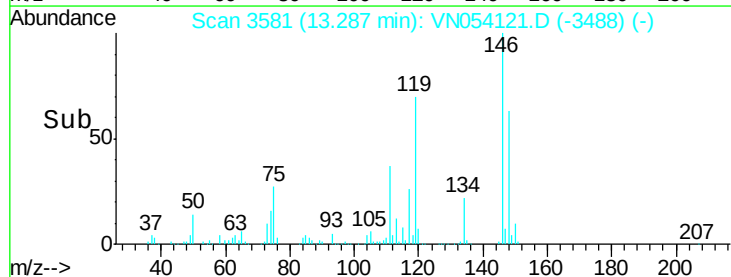
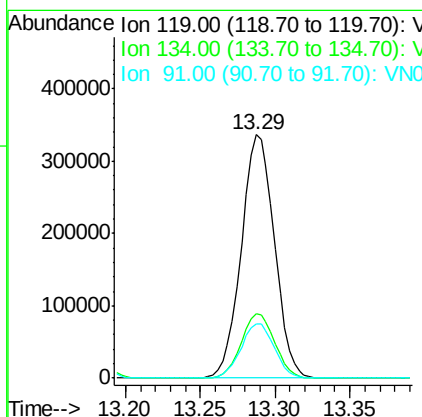
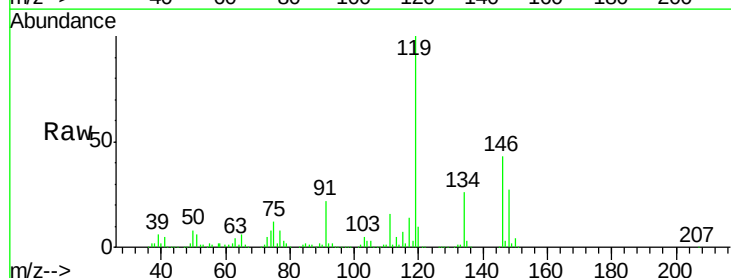
Manual Integrations
 APPROVED

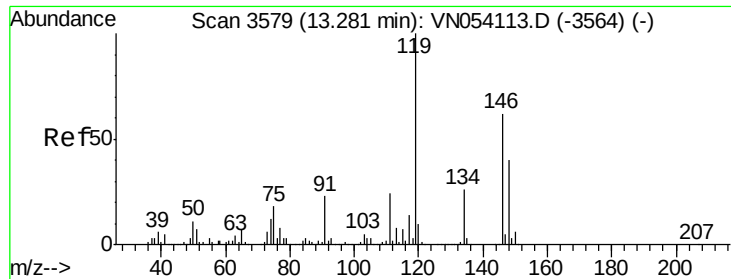
MMDadoda
 3/7/2019 11:39:27 AM



#86
 p-Isopropyltoluene
 Concen: 20.739 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.2	39.5
91	22.7	11.4	34.2





#87

1,3-Dichlorobenzene

Concen: 19.382 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

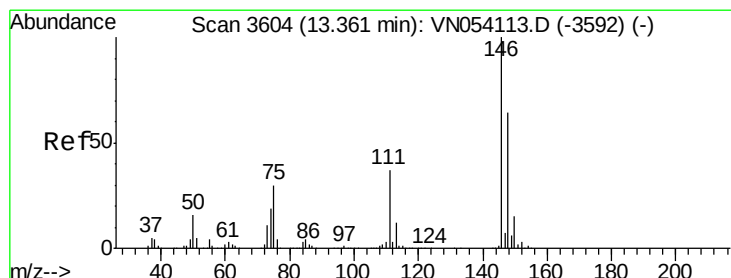
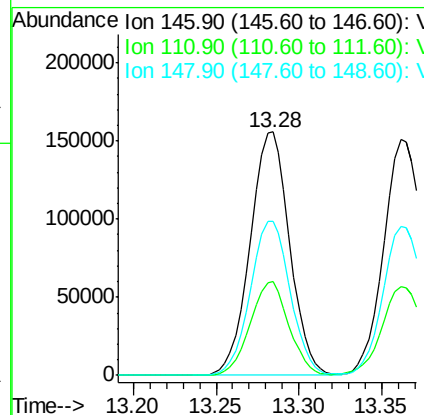
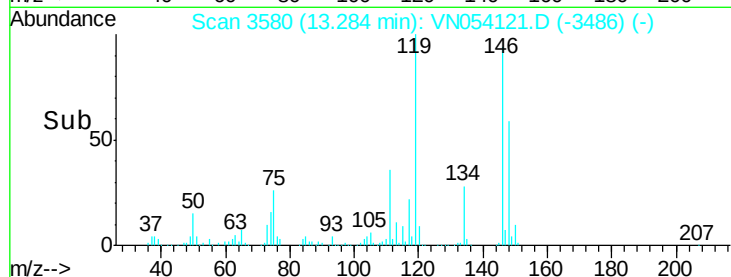
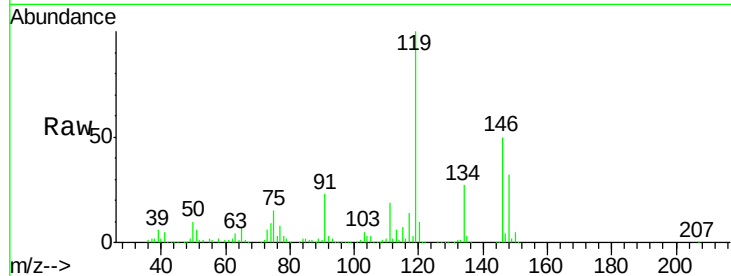
ClientSampled :

VN0306WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	257251		
111	38.0	19.3	57.8	
148	64.2	32.4	97.0	

Manual Integrations
APPROVED

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3/7/2019 11:39:27 AM



#88

1,4-Dichlorobenzene

Concen: 19.084 ug/l

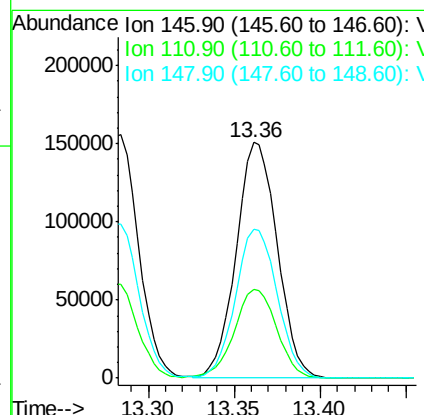
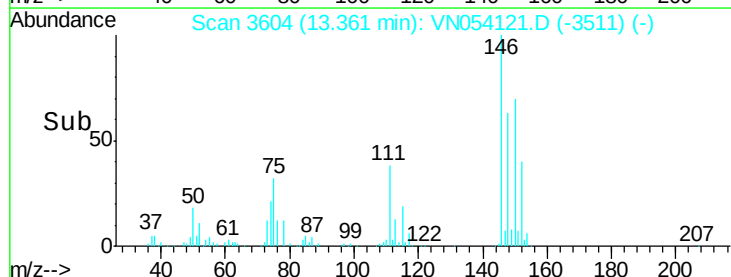
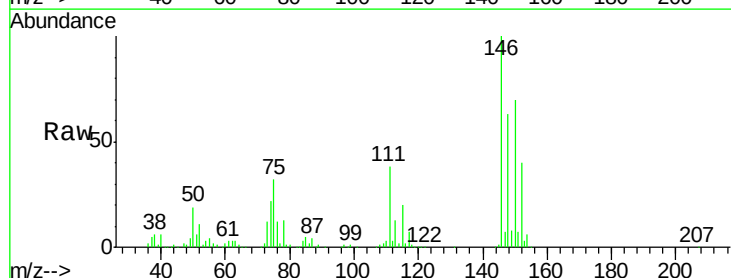
RT: 13.36 min Scan# 3604

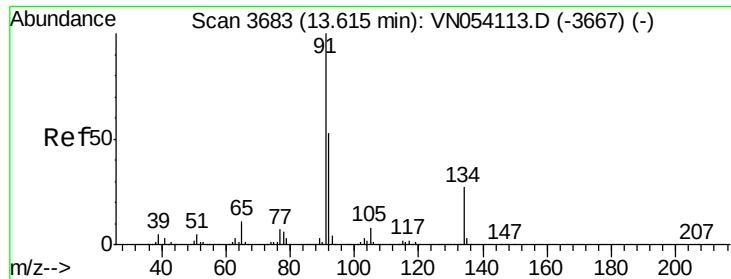
Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	251383		
111	39.0	18.9	56.5	
148	64.4	32.1	96.5	





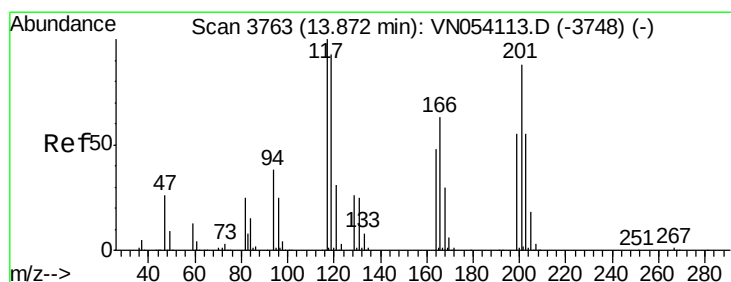
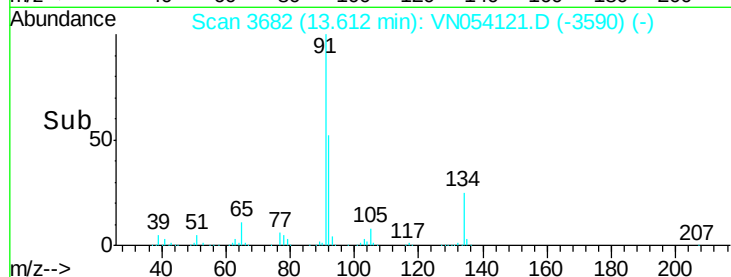
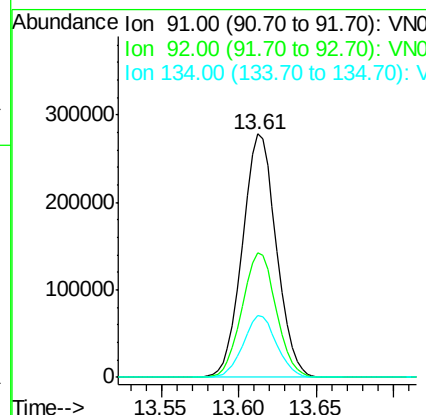
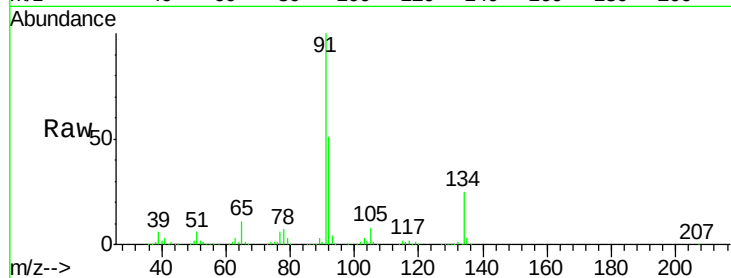
#89
n-Butylbenzene
Concen: 20.141 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.0	78.0
134	25.2	13.1	39.1

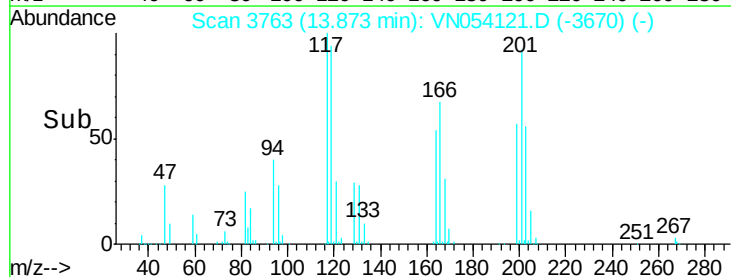
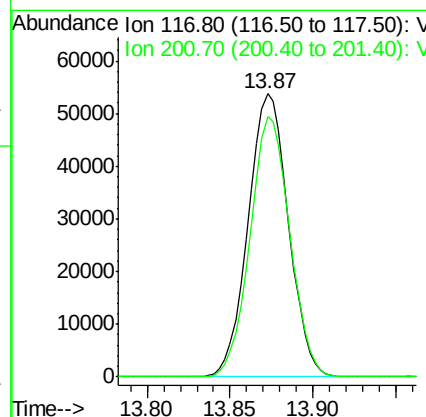
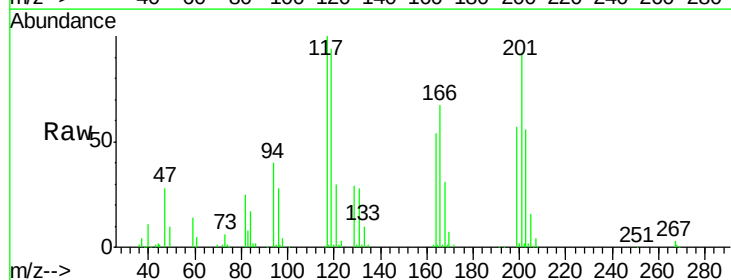
Manual Integrations
APPROVED

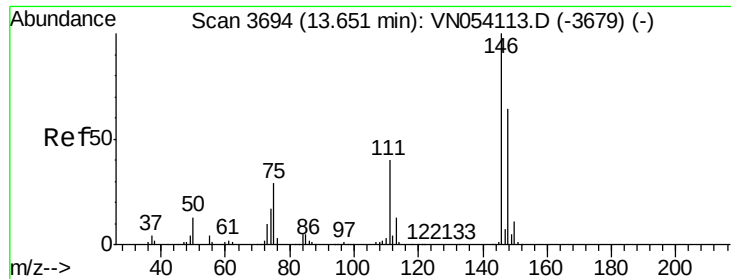
MMDadoda
3/7/2019 11:39:27 AM



#90
Hexachloroethane
Concen: 18.948 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054121.D
Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.6	44.9	134.7





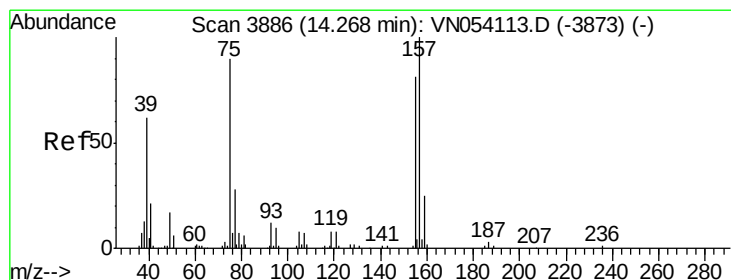
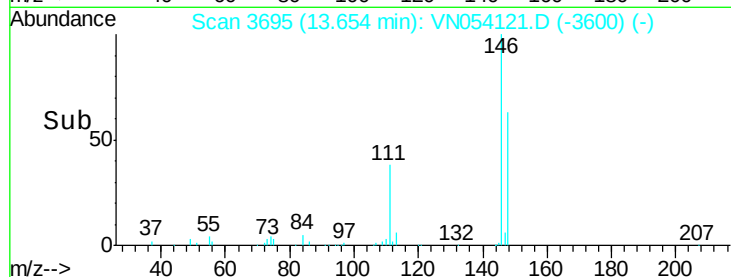
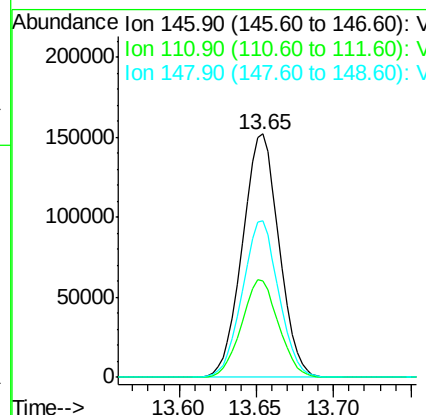
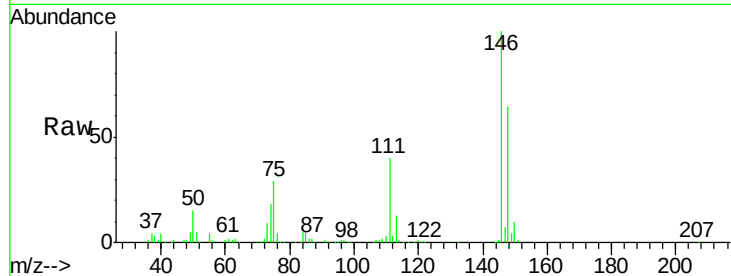
#91
 1,2-Dichlorobenzene
 Concen: 20.276 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.0	60.0
148	63.9	32.3	96.9

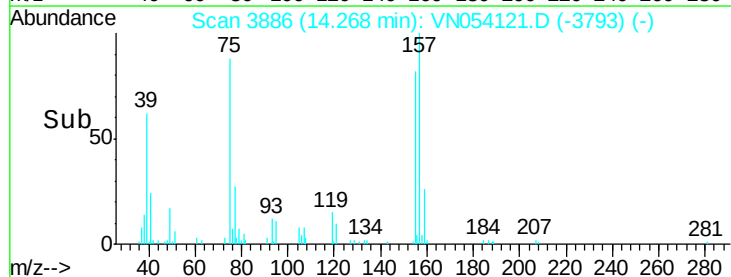
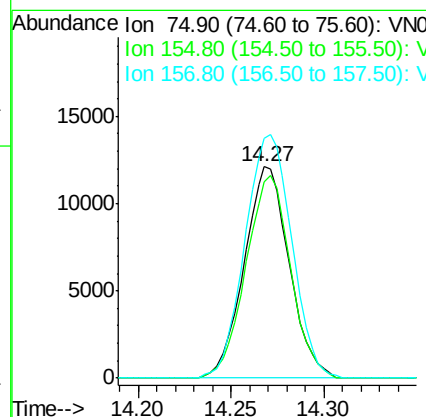
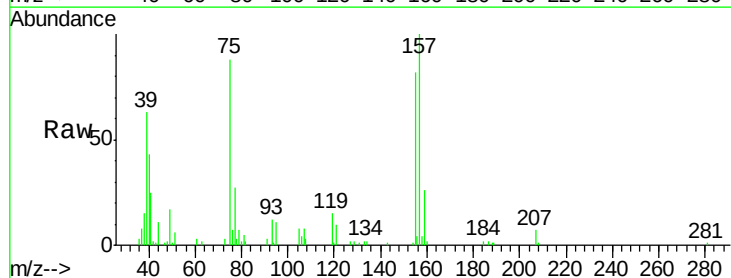
Manual Integrations
 APPROVED

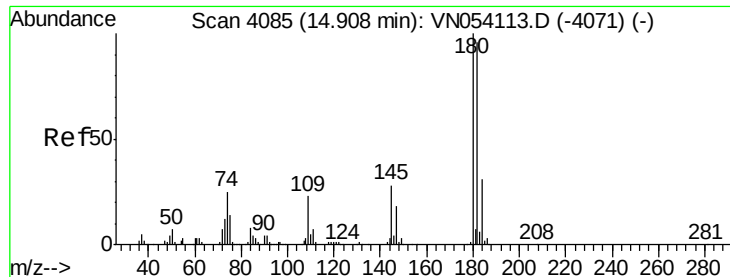
MMDadoda
 3/7/2019 11:39:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.439 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.7	44.5	133.5
157	119.6	57.2	171.6





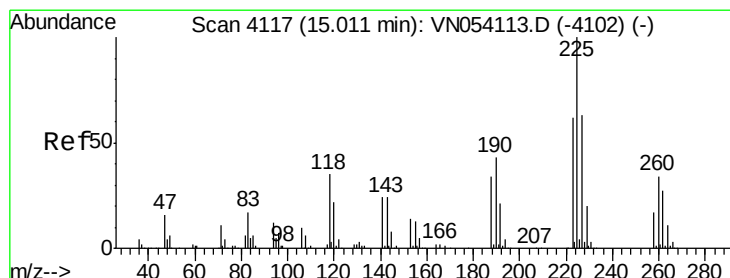
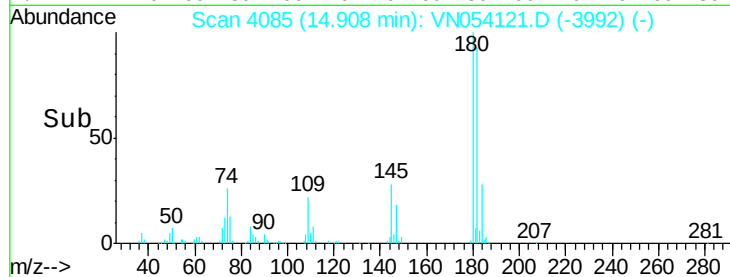
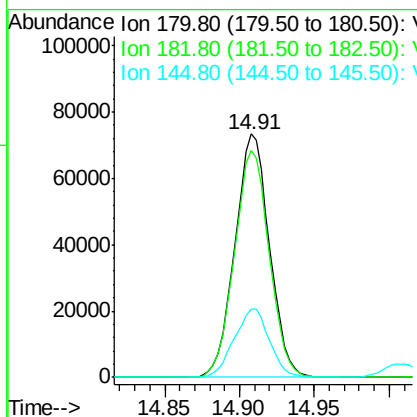
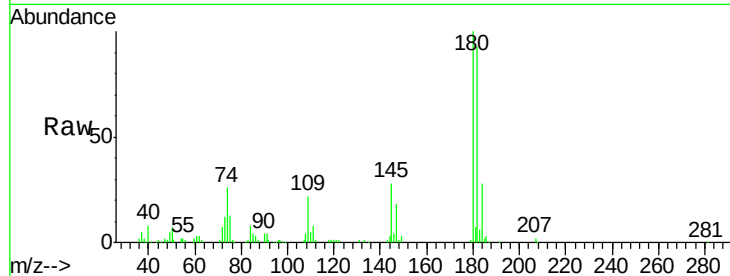
#93
 1,2,4-Trichlorobenzene
 Concen: 18.699 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	117940		
182	93.9	48.1	144.3	
145	28.5	13.9	41.7	

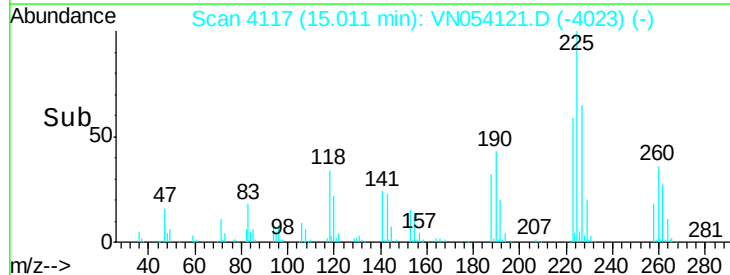
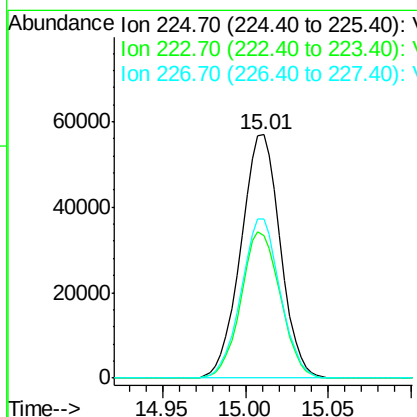
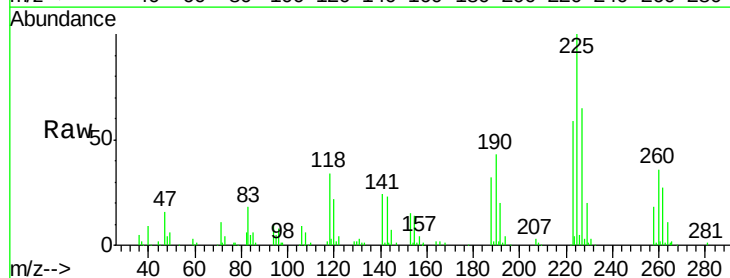
Manual Integrations
 APPROVED

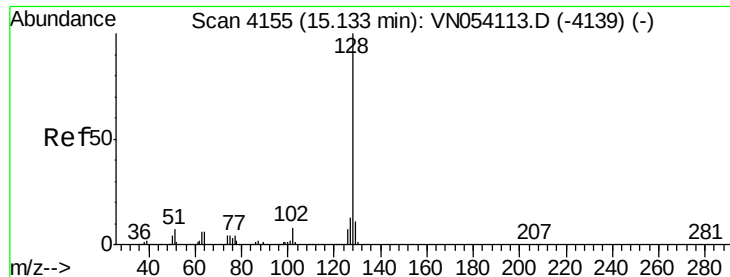
MMDadoda
 3/7/2019 11:39:27 AM



#94
 Hexachlorobutadiene
 Concen: 22.464 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054121.D
 Acq: 6 Mar 2019 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	93972		
223	60.0	31.2	93.6	
227	64.7	31.9	95.7	





#95

Naphthalene

Concen: 18.661 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Instrument :

MSVOA_N

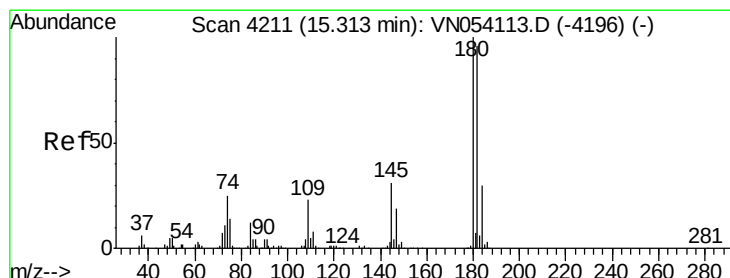
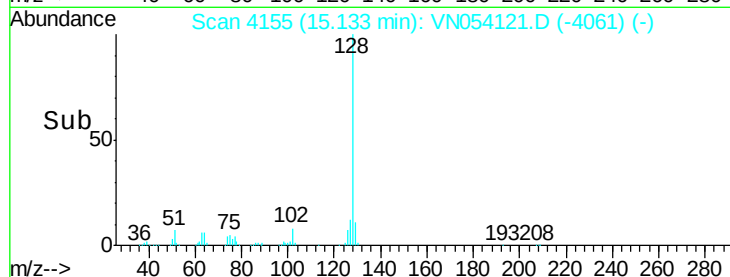
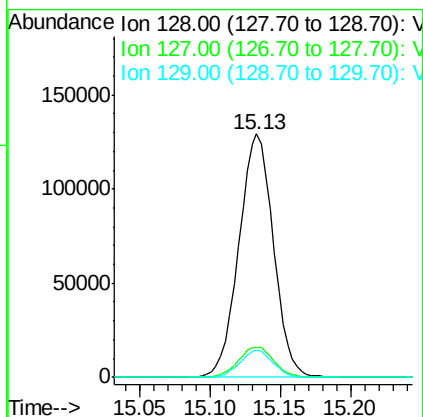
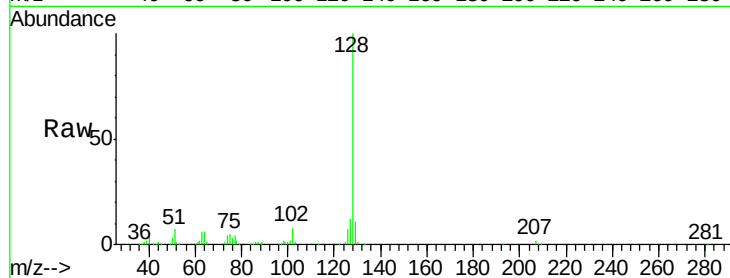
ClientSampled :

VN0306WBS01

Tot Ion:	128	Resp:	221866
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.6	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:27 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.337 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054121.D

Acq: 6 Mar 2019 17:20

Tgt Ion:	180	Resp:	119180
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.9	143.7
145	30.4	14.9	44.5

